





ORDER NO. ARP2157

STEREO AMPLIFIER



#### MODEL A-Z470 HAS FOLLOWING VERSIONS:

Туре	Power requirement	Export destination
HE	AC220V, 240V(switchable) *	European continent
нв	AC220V, 240V(switchable) *	United Kingdom
HEWZIW	AC220V, 240V(switchable) *	Germany and Italy

Change the primary wiring.

- This manual is applicable to the A-Z470/HE, HB and HEWZIW types.
- As to the HB and HEWZIW types, refer to page 46.
- This product is a component of a system. As to the system composition, refer to the system manual.
- This product does not function properly when independent; to avoid malfunctions, be sure to connect it to the prescribed system component, otherwise damage may result.
- Ce manuel pour le sevice comprend les explications de réglage en français.
- Este manual de servicio trata del método ajuste escrito en español.

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# 1. SPECIFICATIONS

Amplifier Section	
Continuous Power Output (DIN)	70 W + 70 W
	Hz, T.H.D. 1 %, 8 Ω)
Music power (DIN) 110 W + 110 W (1 k	Hz, T.H.D. 1 %, 8 Ω)
D/A converter section	.1
Signal-to-Noise Ratio	
Dinamic range	
Total Harmonic Distortion (1 kHz, 35 W, 8 Ω)No	
Input sensitivity	o more than 0.06 % * *
PHONO (MM)	2.5 m\/
MIC	
VCR	
LD	
Output level	
DAT, VCR	150 mV
MUTING	– w
Daniel C. J. (BA)	
Power Supply/Miscellaneous	10 1/ h = 50/00 m
Power requirements a.c.2	
AC outlets switched (x 1)	
Dimensions	
Weight (without package)	
Accessories	
Operating instructions	1
Remote control unit	
Dry cell batteries "AAA" (IEC R03/UM-4)	2

<sup>\*\*</sup> Measured By Audio Spectrum Analyzer.

# 2. EXPLODED VIEWS, PACKING AND PARTS LIST

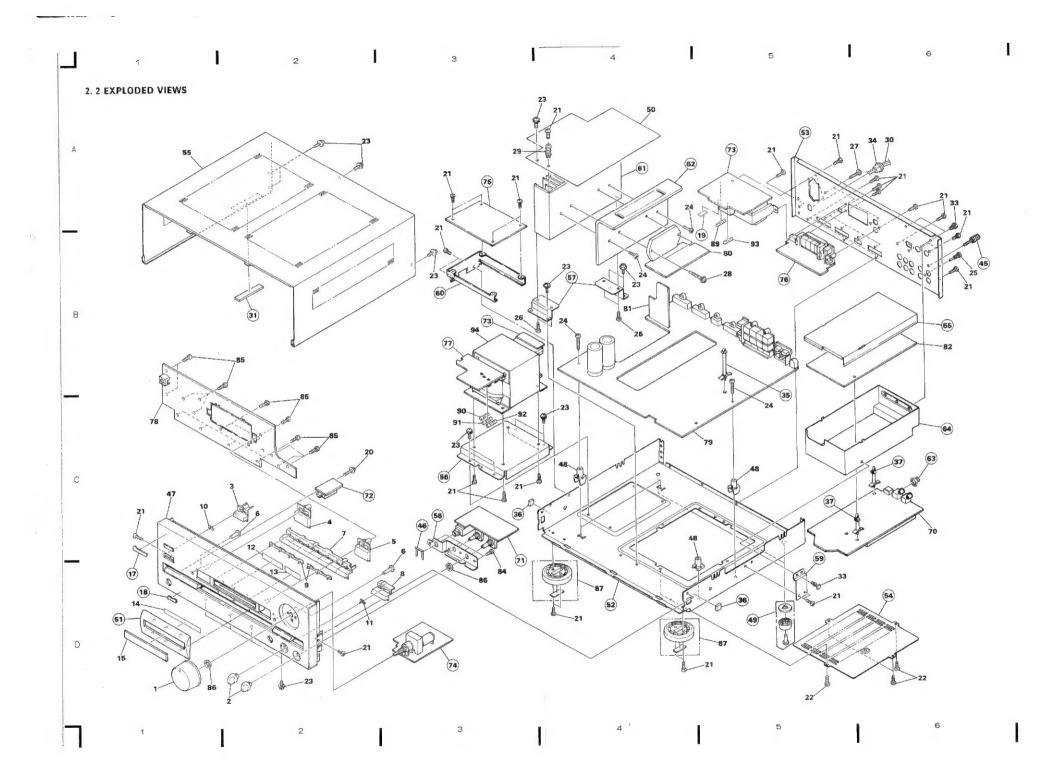
#### NOTES:

- · Parts without part number cannot be supplied.
- Parts marked by "®" are not always kept in stock. Their delivery time may be longer than usual or they may
  be unavailable.
- The A mark found on some component parts indicates the importance of the safety factor of the part.

  Therefore, when replacing, be sure to use parts of identical designation.

# 2.1 PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	VOL KNOB(VOLUME)	AAB1117		50	PLATE	AMR2133
	2	ROTARY KNOB(MIC LEVEL, BALANCE)	AAB1130		51	SASH	*************
	3	POWER BUTTON	AAD1595		52	CHASSIS	
	4	BOTTUN L(LSS MODE)	AAD1596		53	REAR PANEL	
	5	BUTTON L(DIRECT MODE)	AAD1597		54	BOTTOM PLATE	•
	6	KIN BUTTON(MUTING, LSS SET))	AAD1682		55	BONNET CASE	ANE1208
	7	FUNCTION BUTTON	AAD1968		56	TRANS. HOLDER	**********
	8	BUTTON S(SPEAKERS)	AAD1970		57	HEAT SINK HOLDER	
	9	LENS L	AAK1757		58	VOLUME HOLDER	
	10	LENS S	AAK1758		59	HOLDER	
	11	LENS	AAK1759		60	HOLDER A	
	12	SHEET			61	HEAT SINK	
	13	SHEET			62	HEAT SINK	
	14	PVC SHEET			63	GROUND PLATE	
	15	PANEL	AAK2116		64	SHIELD CASE	
	16	**********			65	SHIELD COVER	
	17	NAME PLATE(PLASTIC)			66	OPERATING INSTRUCTIONS	ARC1249
	18	NAME PLATE				(Dutch, Swedish, Spanish, Portguese)	***************************************
	19	FUSE CARD			67	OPERATING INSTRUCTIONS	ARE1181
	20	SCREW (STEEL)	ABA-283			(English, German, French, Italian)	
	21	SCREW	ABA-298		68	WARRANTY CARD	
	22	SCREW (STEEL)	ABA1009		69	10111111111	
	23	SCREW (STEEL)	ABA1011		70	DAC ASSEMBLY	AWK1385
	24	SCREW	ABA1018		71	MIC ASSEMBLY	12111111000
	25	SCREW (STEEL)	ABA1047		72	HEAD PHONE ASSEMBLY	
	26	SCREW (STEEL)	ABA1050		73	SUB TRANS ASSEMBLY	
	27	SCREW (STEEL)	ABA1072		74	POWER VR ASSEMBLY	
	28	SCREW	ABA1098		75	RELAY ASSEMBLY	
	29	SPRING	ABH1032		76	SP TERMINAL ASSEMBLY	
Δ	30	AC POWER CORD	ADG1019		77	FUSE ASSEMBLY	
	31	RUBBER CUSHION		•	78	DISPLAY ASSEMBLY	AWZ3361
	32	***********		•	79	AF ASSEMBLY	AWZ3403
	33	NYLON RIVET	AEC-510		80	POWER ASSEMBLY	AWZ2747
	34	STRAIN RELIEF	AEC-882	•	81	STANDBY ASSEMBLY	AWZ3505
	35	PCB SUPPORT			82	DSP ASSEMBLY	AWK1445
	36	CUSHION			83	REMOTE CONTROLLER	AXD1194
	37	PCB SPACER				(CU-AZ020)	***************************************
	38	**********			84	SCREW	BBZ26P060FMC
	39	BATTERY (R03, AAA)			85	SCREW	BBZ26P080FMC
	40	FRONT PAD	AHA1272		86	NUTS	NK90FZB
	41	REAR PAD	AHA1273		87	FOOT(PLASTIC)	RXA1276
	42	PACKING CASE	AHD2008		88	**********	
		LITERATURE BAG		$\Delta$	89	FU1 FUSE(T2.5A)	AEK-403
	44	PACKING SHEET	AHG1016	$\Delta$	90	FU2 FUSE(T2A)	AEK-017
	45	TERMINAL SCREW		Δ	91	FU3 FUSE(T1.6A)	AEK-405
	46	MOUNTING PLATE		$oldsymbol{\Lambda}$	92	FU4 FUSE(T1.6A)	AEK-405
			AMB1761		93	FU5 FUSE(T2.5A)	AEK-403
		PCB MOULD		▲.	94	T1 POWER TRANSFORMER	ATS1335
-	49	LEG ASSY(S)			95	BATTERY COVER	AZN2072



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# 3. P.C.B's PARTS LIST

#### NOTES:

- Parts without part number cannot be supplied.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1	When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance	e is
	shown by $J = 5\%$ , and $K = 10\%$ ).	
	$560\Omega$ $56 \times 10^{1}$ $561$	
	$47k\Omega$ $47 \times 10^3$ $473$	•
	0.50 OR5 PROFILE V	

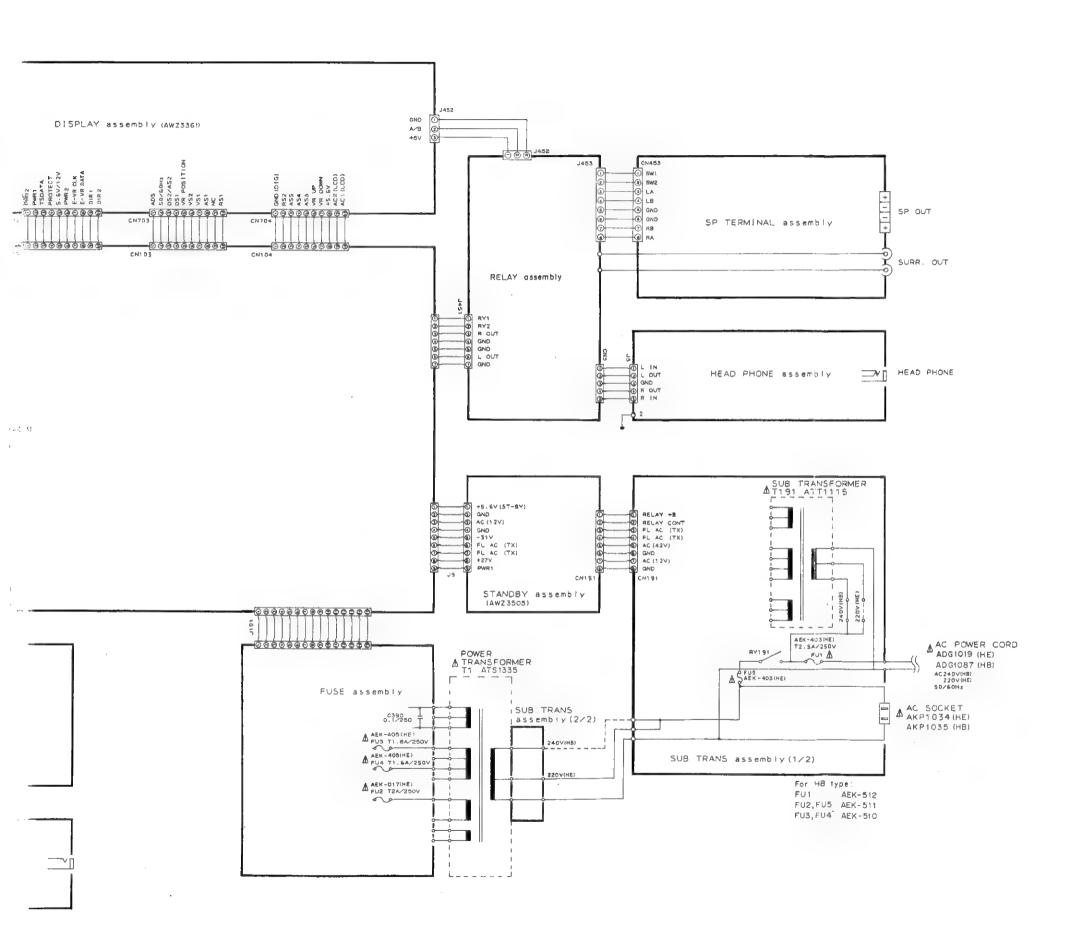
Mark Symbol & Description	Part No.	Mark Symbol & Description	Part No.
DAC ASSEMBLY (AWK1385)		C810 ELECTR.CAPACITOR	CEAS010M50
/		C811 AUDIO FILM CAPACITOR	CFTXA224J50
SEMICONDUCTORS		C812 ELECTR.CAPACITOR	CEAS470M10
IC801 LOGIC IC	TC74HCU04AP	C813 CERAMIC CAPACITOR	ACG1021
IC802 DIGITAL I.F. IC	PD0037	C814 CERAMIC CAPACITOR	CCDCH220J50
IC803 IC DIGITAL FILTER	PD0060		
IC804 LOGIC IC	TC74HC32AP	C815 ELECTR.CAPACITOR	CEAS101M10
IC805 D/A CONVERTER	SAA7350GP	C816 CERAMIC CAPACITOR	ACG1022
		C818 ELECTR.CAPACITOR	CEAS101M10
IC806,IC807 IC	NJM072D-E	C819 MICA CAPACITOR	CMA220J500
IC808 OP AMP IC	RC4558DXP	C820 ELECTR.CAPACITOR	CEAS470M10
Q801,Q802 TRANSISTOR	RN2203		
Q804,Q805 TRANSISTOR	2SC2458	C821,C822 CERAMIC CAPACITOR	CKDYX473M16
Q806,Q807 TRANSISTOR	2SC2878	C823 CERAMIC CAPACITOR	ACG1021
		C824 ELECTR.CAPACITOR	CEAS010M50
Q808,Q809 TRANSISTOR	RN1203	C825 ELECTR.CAPACITOR	CEAS101M10
Q810 TRANSISTOR	RN2203	C826 CERAMIC CAPACITOR	ACG1021
Q811 TRANSISTOR	RN2201		
Q812 TRANSISTOR	RN2203	C827 CERAMIC CAPACITOR	CKDYX473M16
D801-D810 DIODE	HSS104-02	C828 ELECTR.CAPACITOR	CEAS470M10
		C829 CERAMIC CAPACITOR	CKDYX473M16
D811 ZENER DIODE	RD6.2ESB	C830 ELECTR.CAPACITOR	CEAS470M10
6011		C831,C832 CERAMIC CAPACITOR	ACG1019
COIL		C000 C001 C000 1177 C10 1177	
L801 AXIAL INDUCTOR	LAU330K	C833,C834 CERAMIC CAPACITOR	CCDSL390J50
L803 BEAD FILTER	ATX1008	C835 CERAMIC CAPACITOR	ACG1019
L804 FERRITE BEAD	ATX1008	C836 CERAMIC CAPACITOR	CKDYB471K50
L807,L808 AXIAL INDUCTOR	LAU010M	C837,C838 CERAMIC CAPACITOR	CCDSL390J50
L809 FERRITE BEAD	ATX1008	C839,C840 CERAMIC CAPACITOR	CKDYX473M16
L810-L813 AXIAL INDUCTOR	LAU010M	C841,C842 ELECTROLYTIC CAPACIT	CEAS470M10
L814 FERRITE BEAD	ATX1008	C843 CERAMIC CAPACITOR	CKDYX473M16
L817 AXIAL INDUCTOR	LAU010M	C844,C845 CERAMIC CAPACITOR	CKDYB222K50
L818 FERRITE BEAD	ATX1008	C847 ELECTR.CAPACITOR	CEAS101M10
L819,L820 AXIAL INDUCTOR	LAU010M	C848 CERAMIC CAPACITOR	CKDYX473M16
L821,L822 AXIAL INDUCTOR	LAU220K	C849-C852 ELECTROLYTIC CAPACIT	CEAS470M10
L823-L826 AXIAL INDUCTOR	LAU010M	C853,C854 CERAMIC CAPACITOR	CKDYX473M16
L827 FERRITE BEAD	ATX1008	C855-C858 CERAMIC CAPACITOR	ACG1017
	AIAIOOO	C859,C860 MYLOR FILM CAPACITOR	
CAPACITORS		C861,C862 PL.STYRENE CAPACITOR	CQSA101J50
C805 CERAMIC CAPACITOR	CKDYX473M16		0.4011101000
C806 CERAMIC CAPACITOR	ACG1021	C863,C864 ELECTROLYTIC CAPACIT	CEYA2R2M50
C807 ELECTR.CAPACITOR	CEAS010M50	C865,C866 MYLOR FILM CAPACITOR	COMA683.150
C808 CERAMIC CAPACITOR	ACG1021	C867,C868 CERAMIC CAPACITOR	ACG1018
C809 ELECTR.CAPACITOR	CEAS101M10	C869,C870 ELECTROLYTIC CAPACIT	CEYA2R2M50
		C871-C876 ELECTR.CAPACITOR	CEAS470M10

Mark Symbol & Description	Part No.	Mark Symbol & Description	Part No.
RESISTORS R870-R873 CARBON FILM RESISTOR	RD1/4PM390J	POWER VR ASSEMBLY	
Other resistors	RD1/8PM□□□J	SEMICONDUCTORS IC651 OP-AMP IC	RC4558DXP
OTHERS DIGITAL JACK 1-P	AKB1073	CAPACITORS	
PHOTO SENSOR MODULE	AKX1015	C651,C652 ELECTR.CAPACITOR	CEAS100M25
CN1 CONNECTOR(11P)	KPE11	C653 ELECTR.CAPACITOR	CEAS470M10
CN5 CONNECTOR(8P) T801 OSC TRANSFORMER	KPE8 ATX1003	C654 ELECTROLYTIC CAPACIT C655 CERAMIC CAPACITOR	CEYA470M25
1001 ODO TILANOFORMER	ATAI003	C656 ELECTROLYTIC CAPACIT	CKCYX103M <b>25</b> CEYA470M25
MIC ASSEMBLY		C657,C658 CERAMIC CAPACITOR C661,C662 ELECTR.CAPACITOR	CCCSL390J50 CEAS100M50
			021121011130
SEMICONDUCTORS IC601 OP-AMP IC	RC4558DXP	RESISTORS R659-R661 CARBON FILM RESISTOR	DD1 /4D342007
Q601,Q602 TRANSISTOR	2SC2458	VR651 VARIABLE RESISTOR	RD1/4PM390J ACX1027
D601,D602 DIODE	HSS104-02	Other resistors	RD1/8PM
CAPACITORS		OTHERS	
C601 ELECTROLYTIC CAPACIT	CEJA220M16	CN2 CONNECTOR(15P)	KPE15
C602 CERAMIC CAPACITOR C603 ELECTROLYTIC CAPACIT	ACG1019		
C604 CERAMIC CAPACITOR	CEJA3R3M50 ACG1017	@DICDLAY ACCENDING (AM72761)	
C605 AUDIO FILM CAPACITOR	CFTXA474J50	<b>●DISPLAY ASSEMBLY (AWZ3361)</b>	
		SEMICONDUCTORS	
C606 CERAMIC CAPACITOR	CKCYB681K50	IC701 SYSTEM CONTROL IC	PD5160A
C607 ELECTROLYTIC CAPACIT C608 ELECTR.CAPACITOR	CEJA100M25	Q701-Q704 TRANSISTOR	DTA124ES
C609,C610 ELECTR.CAPACITOR	CEJA010M50 CEAS470M10	Q705 TRANSISTOR Q711 TRANSISTOR	DTA 143ES DTC124ES
C611 CERAMIC CAPACITOR	CKCYF103Z50	Q712,Q713 TRANSISTOR	2SC2458
C612,C613 ELECTROLYTIC CAPACIT	CEJA100M25	Q716 TRANSISTOR	DTC124ES
		Q717,Q718 TRANSISTOR	2SC2458
RESISTORS		Q719 TRANSISTOR	25A1048
R614,R615 CARBON FILM RESISTOR VR601 VARIABLE(100K-X1)	RD1/4PM390J ACS1026	Q720 TRANSISTOR	2SC2458
VR602 VARIABLE(10K-X1)	ACS1025	Q721-Q723 TRANSISTOR	2SA1048
Other resistors	RD1/8PM□□□J	D701,D702 DIODE	HSS104-02
OTHERS		D703 LED(RED)	AEL1099
OTHERS JACK	1 *P\$14.04#	D704-D706 DIODE	HSS104-02
JACK	AKN1017	D707,D708 LED(RED) D710-D715 LED(RED)	AEL1099 AEL1099
HEAD PHONE ASSEMBLY		D719-D721 DIODE	HSS104-02
		D722 LED(RED)	AEL1099
CAPACITORS	Category Page 4 to 10 to 10	D723 DIODE	HSS104-02
C451 CERAMIC CAPACITOR	CKDYX104M25	D725,D726 LED	AEL1091
RESISTORS		D727 LED	AEL1074
⚠ R453-R456 METAL OXIDE RESISTOR	RS2LMF331J	D728 LED(RED)	AEL1038
OTHERS		D729 LED	AEL1091
JACK	AKN1010	D730,D731 DIODE	HSS104-02
		SWITCHES	
6115 TRADE 100TH		S701-S710 SWITCH	ASG1029
SUB TRANS ASSEMBLY		\$712-\$714 SWITCH	ASG1029
SEMICONDUCTORS	DDc secons	COIL	22
A D191,D192 ZENER DIODE	RD6.2ESB3	L701 AXIAL INDUCTOR	LAU101K
CAPACITORS		CAPACITORS	
⚠ C191,C192 CKA (0.01/AC400V)	ACG1003	C701 CERAMIC CAPACITOR	CKCYX473M25
OTHERS		C702 ELECTR CAPACITOR C703,C704 CERAMIC CAPACI <b>TOR</b>	CEAS221M10
△ AC SOCKET 1-P	AKP1034	C705 CERAMIC CAPACITOR	CKCYX103M25 CKCYB102K50
SOCKET 8-P	AKP1045	C706 ELECTR.CAPACITOR	CEAS010M50
A RY191 RELAY	ASR1024		
T191 POWER TRANSFORMER	ATT1115		

Mark Symbol & De	escription	Part No.	Mark	Symb	ol & Description	Part No.
C709,C710 C	47000/5.5V) 'R.CAPACITOR ERAMIC CAPACITOR MIC CAPACITOR	ACH1070 CEAS4R7M50 ACG1021 CKCYX473M25		C411, C413, C415,	410 CERAMIC CAPACITOR C412 ELECTR.CAPACITOR C414 ELECTR.CAPACITOR C416 ELECTR.CAPACITOR	CKDYB102 CEAS010M CEAS220M CEAS470M
RESISTORS R742 RESIST	FOR ARRAY 100K	RA5T104J			C418 ELECTR.CAPACITOR  ELECTR.CAPACITOR	CEAS101M CEAS470M
R744 RESIST R761 RESIST	FOR ARRAY(100K) FOR ARRAY (10K) resistors	RA6T104J RA4T104J RD1/8PM□□□J		C425,	C426 CERAMIC CAPACITOR C430 ELECTROLYTIC CAPACIT	CCDSL0300 CEYA220M
ATUENA			RESI	STOR		
OTHERS X701 CERAN	MIC RESONATOR	ASS1025			R406 CARBON FILM RESISTOR R414 CARBON FILM RESISTOR	RDR1/4PM RD1/2PM4
SOCKET(10	P)	AKP1044	$\Phi$	R417,	R418 CARBON FILM RESISTOR	RD1/4PMF
REMOTE R	ECEIVER UNIT	AXX1010	$\Phi$		CARBON FILM RESISTOR CARBON FILM RESISTOR	RD1/2PM1 RD1/4PMF
RELAY ASSEME	BLY		<b>Å</b>		CARBON FILM RESISTOR	RD1/4PMF
SEMICONDUCTO	ORS		Δ	R422	CARBON FILM RESISTOR Other resistors	RD1/4PMF RD1/8PM[
Q451 TRANS	SISTOR	DTC124ES			, reaterals	SCOT OF TATE
Q452,Q453 T Q454 TRANS		2SD438 DTC124ES	Ellel	C ACC	SEMBLY	
Q455,Q456 T	RANSISTOR	2SD438				
D451-D460 Z	ENER DIODE	RD12ESB3	CAP	ACITO C390	ORS MYLOR FILM CAPACITOR	CQMA104F
COILS	OTT.	ATTI 1004				
L451,L452 CC	JIL .	ATH1004	<b>(Δ)</b> Λ <b>(3)</b>	. 766	EMBLY (AWZ3403)	
CAPACITORS C461-C464 M	VIOD BILL GADACIMOD	COMAINATES			•	
C401-C404 M	YLOR FILM CAPACITOR	∪ŲMA104J50	SEMI		DUCTORS REGULATOR IC	UPC78M05
RESISTORS	ARBON FILM RESISTOR	DD1/ADMEET 1007		IC102	REGULATOR IC	NJM78M56
	TAL OXIDE RESISTOR	RD1/4PMFL100J RS2LMF102J RD1/8PM□□□J			REGULATOR IC REGULATOR IC MECHANISM DRIVER IC	NJM79M05 UPC78M12 TA7291S
OTHERS				IC201	OP-AMP IC	RC4558DXI
CN451 CON RY451-RY455		KPC7 ASR-112		IC202	LOGIC IC	TC4066BP
A68 1 A-16F 1 A	IUDIA I	A310-112			LOGIC IC OP-AMP IC	MC14052B0 M5218ALF
SP TERMINAL A	ASSEMBLY				E-SW IC	LC4966
SWITCHES					LOGIC IC	MC14052BC
SWITCHES S451 SWITCH	H	ASH1015			OP-AMP IC OP-AMP IC	RC4558DXI M5218ALF
CAPACITORS				Q101	TRANSISTOR	2SB560
	ROLYTIC CAPACIT	CEANP4R7M100		Q102	TRANSISTOR	2SA970
OTHERS				-	Q105 TRANSISTOR	2SC2458
PIN JACK(2		AKB1039		-	TRANSISTOR Q108 TRANSISTOR	2SD438 DTC124ES
	TERMINAL 8-P PER CONNECTOR	AKE-111 KPC8			TRANSISTOR TRANSISTOR	2SA1048 2SC2603
<b>●POWER ASSE</b>	MBLY (AWZ2747)			-	TRANSISTOR	2SA1048
SEMICONDUCTO	RS				DIODE DIOT DIODE	RBV602 S5566
IC401 AUDIO		STK4211-5P		D108	DIODE	RB152 HSS104-02
CAPACITORS		OFFICE APPROXIMATION		27103	DIODE	
•	RAMIC CAPACITOR R.CAPACITOR	CKDYF472Z50 CEAS4R7M50			ZENER DIODE ZENER DIODE	RD33ESB2 RD6.2ESB
C404 ELECTI	ROLYTIC CAPACIT	CEHAQ4R7M50		D112,E	D113 DIODE	HSS104-02
	RAMIC CAPACITOR ECTROLYTIC CAPACIT	CCDSL470J50 CEYA101M50			ZENER DIODE	RD3.0ESB1
	Uninuli			DITO	DIODE	*ゴロコエロボーロス

Marl	Symbol & Description	Part No.	Mark Symbol & Description	Part No.
	D116 ZENER DIODE	RD4.7ESB	OTHERS	
	D117 DIODE	HSS104-02	PHONO JACK 4-P	AKB-115
	D158 ZENER DIODE	RD12ESB3	PIN JACK(6P)	AKB1123
			PLUG(10P)	AKM1037
CAF	ACITORS		JACK	AKN-203
•	C101 CKA (0.01/AC250V)	ACG1005-A	SOCKET(4P)	AKP1046
	C102,C103 CERAMIC CAPACITOR	CKDYF103Z50	DOGILE 1 (#1)	AVL 1040
	C104,C105 ELECTROLYTIC CAPACIT	ACH1031	SOCKET(14P)	AKP1048
	C106,C107 ELECTR.CAPACITOR	CEAS222M16	SOCKET(15P)	AKP1049
	C108 ELECTR.CAPACITOR	CEAS471M50	SOCKET(13P)	AKP1052
			SCREW	PBZ30P080FMC
	C109 ELECTR CAPACITOR	CEAS332M25		T DEPAT GOATING
	C110 ELECTR.CAPACITOR	CEHAQ101M50		
	C111,C112 ELECTR.CAPACITOR	CEAS101M50	<b>©STANDBY ASSEMBLY (AWZ3505</b>	1
	C113 ELECTROLYTIC CAPACIT	CEHAQ220M50	@STANDDI ASSEMBET (AVVZSSUS	,
	C114 ELECTROLYTIC CAPACIT	CEHAQ470M50	SEMICONDUCTORS	
	· · · · · · · · · · · · · · · · · · ·		IC151 REGULATOR IC	NJM78M56FAS
	C115 ELECTR.CAPACITOR	CEHAQ101M50	Q152 TRANSISTOR	2SB560
	C116 ELECTROLYTIC CAPACIT	CEHAQ221M10	Q554 TRANSISTOR	2SD438
	C117 ELECTR.CAPACITOR	CEAS100M25	D151-D154 DIODE	S5566
	C118 CERAMIC CAPACITOR	CKCYX103M25	D156 ZENER DIODE	RD33ESB2
	C119 ELECTR.CAPACITOR	CEAS221M10	DIOS ELECTIONE	RD33E3B2
			D157 ZENER DIODE	RD6.2ESB
	C120 ELECTR.CAPACITOR	CEAS010M50		1404.2000
	C121 CERAMIC CAPACITOR	ACG1021-A	CAPACITORS	
	C160 ELECTR.CAPACITOR	CEAS101M50	C151 ELECTROLYTIC CAPACIT	CEHAQ222M16
	C201,C202 CERAMIC CAPACITOR	ACG1017-A	C152 ELECTROLYTIC CAPACIT	CEHAQ471M16
	C203,C204 ELECTR.CAPACITOR	CEAS2R2M50	C153,C156 ELECTROLYTIC CAPACIT	CEHAQ221M50
			C157 ELECTROLYTIC CAPACIT	CEHAQ220M50
	C205,C206 ELECTR.CAPACITOR	CEAS3R3M50	C158 ELECTROLYTIC CAPACIT	CEHAQ470M50
	C206 ELECTR.CAPACITOR	CEAS3R3M50	C159 ELECTROLYTIC CAPACIT	CEHAQ221M10
	C207,C208 CERAMIC CAPACITOR	ACG1017-A		
	C209,C210 CERAMIC CAPACITOR	CKCYB152K50	RESISTORS	•
	C211,C212 CERAMIC CAPACITOR	CKCYB562K50	⚠ R151,R152 METAL OXIDE RESISTOR	RS3LMF122J
			▲ R153 METAL OXIDE RESISTOR	RS2LMF222J
	C213,C214 ELECTR.CAPACITOR	CEAS010M50	▲ R157 CARBON FILM RESISTOR	RD1/4PMFL4R7J
	C215,C216 ELECTR.CAPACITOR	CEAS470M10	Other resistors	RD1/8PM□□□J
	C217,C218 ELECTR.CAPACITOR	CEAS4R7M50		
	C219,C220 ELECTR.CAPACITOR	CEAS100M25		
	C221,C222 ELECTROLYTIC CAPACIT	CEYA470M50	DSP ASSEMBLY (AWK1445)	
	C223,C224 ELECTR.CAPACITOR	CEAS100M25	SEMICONDUCTORS	
	C233-C236 ELECTR.CAPACITOR	CEAS100M25	IC901-IC903 OP-AMP IC	RC4558DXP
	C237 CERAMIC CAPACITOR	CKDYX104M25	IC904 AD CONVERTER IC	TD6726N
	C238 CERAMIC CAPACITOR	CKDYF473Z50	IC905 DSP IC	PD0055
	C239,C240 ELECTR.CAPACITOR	CEAS2R2M50	IC906,IC907 MEMORY IC	MB81464-12
			IC908 CONTROL MCU	PDG071A
	C241-C244 ELECTR.CAPACITOR	CEAS100M25		
	C245 ELECTR.CAPACITOR	CEASR22M50	Q901 TRANSISTOR	DTA143ES
	C247,C248 ELECTROLYTIC CAPACIT	CEYA470M50	D901,D902 DIODE	HSS104-02
DEC	ETOBE			
RE3	STORS R101,R102 METAL OXIDE RESISTOR	Desi Medan	COILS, FILTERS	
<u>A</u>	R103 METAL OXIDE RESISTOR	RS2LMFR22J	F901,F902 FILTER	ATF1071
<b>☆</b>	R105,R106 CARBON FILM RESISTOR	RS2LMF222J RD1/4PMF470J	L901-L903 AXIAL INDUCTOR	LAU330K
⚠	R121,R122 METAL OXIDE RESISTOR	,	L904 AXIAL INDUCTOR	LAUR22M
$\overline{\Lambda}$	R129 CARBON FILM RESISTOR	RS1LMF8R2J RD1/2PMFL2R2J	L905,L906 AXIAL INDUCTOR	LAU220K
ш	MILES CARDON TILM IGGISTOR	RDI/2FWIF DZRZJ	L999 AXIAL INDUCTOR	LAU330K
	R130,R131 CARBON FILM RESISTOR	RD1/2PM472J	CADACITORS	
	R132-R134 CARBON FILM RESISTOR	RD1/4PM100J	CAPACITORS	OF LOOP OF THE
$\Lambda$	R135 CARBON FILM RESISTOR	RD1/4PM100J	C901,C902 ELECTR.CAPACITOR	CEAS2R2M50
<b>∆</b> \ <b>∆</b> \	R136 METAL OXIDE RESISTOR	RS3LMF2R2J	C903,C904 MYLOR FILM CAPACITOR	CQMA563J50
	R217,R218 CARBON FILM RESISTOR	RD1/4PM390J	C905,C906 ELECTR.CAPACITOR	CEAS220M25
	, THEOLOGICAL OIL	TITLE AT MINDON	C907,C908 PL.STYRENE CAPACITOR C909,C910 CERAMIC CAPACITOR	CQSA202J50
$\Delta$	R289,R290 CARBONFILM RESISTOR	RD1/8PM104J	Causicate CERAINE CAPACITOR	CCCSL151J50
	Other resistors	RD1/8PM□□□J		
		,		

Mark Symbol & Description	Part No.
C911,C912 CERAMIC CAPACITOR	CCCSL180J50
C913-C916 CERAMIC CAPACITOR	CKCYX473M25
C917,C918 ELECTROLYTIC CAPACIT	CEANP470M16
C919 CERAMIC CAPACITOR	CCDCH100D50
C920 CERAMIC CAPACITOR	CCDCH330J50
C921 CERAMIC CAPACITOR	CKDYF473Z50
C922 CERAMIC CAPACITOR	CCDCH100D50
C923 CERAMIC CAPACITOR	CKDYF473Z50
C924 ELECTR.CAPACITOR	CEAS470M10
C925 CERAMIC CAPACITOR	ACG1022
C926 ELECTR.CAPACITOR	CEAS470M25
C927 CERAMIC CAPACITOR	ACG1022
C928-C930 ELECTR.CAPACITOR	CEAS470M25
C931 ELECTR.CAPACITOR	CEAS010M50
C932 CERAMIC CAPACITOR	ACG1022
C933 ELECTR.CAPACITOR	CEAS101M16
C934 ELECTR.CAPACITOR	CEAS101M50
C935 CERAMIC CAPACITOR	CKDYF473Z50
C936 CERAMIC CAPACITOR	ACG1021
C937,C938 CERAMIC CAPACITOR	CCDCH100D50
C939 CERAMIC CAPACITOR	ACG1022
C940 CERAMIC CAPACITOR	ACG1022
C941 CERAMIC CAPACITOR	CKDYF473Z50
C943,C944 ELECTR.CAPACITOR	CEAS101M50
C945 CERAMIC CAPACITOR	CKDYF473Z50
C947,C948 CERAMIC CAPACITOR	ACG1021
RESISTORS	
R952,R953 CARBON FILM RESISTOR	RD1/4PM390J
R955 RESISTOR ARRAY (10K)	RA7T103J
VR901 VR	VRTB6VS102
VR902 VR	VRTB6VS102
Other resistors	RD1/8PM□□□J
OTHERS	
	KPE15
CN7 CONNECTOR(12P)	KPE12
X901 CRYSTAL RESONATOR	ASS1036
X902 CRYSTAL RESONATOR	ASS1035
X903 CRYSTAL RESONATOR	ASS1015



8

#### 1.RESISTORS:

Indicated in  $\Omega$ , 1/8, 1/4W,,  $\pm$ 5% tolerance unless otherwise noted k; k $\Omega$ , M; M $\Omega$ , (F);  $\pm 1\%$ , (G);  $\pm 2\%$ , (K);  $\pm 10\%$ , (M); ±20% tolerance.

#### 2.CAPACITORS:

Indicated in capacity  $(\mu F)/\text{voltage}(V)$  unless otherwise noted p; pF. Indication without voltage is 50V except electrolytic capacitor.

#### 3.VOLTAGE, CURRENT:

 $\forall$  ; Signal voltage at 70 W + 70 W, 8 $\Omega$  output(1kHz). ; DC voltage (V) at no input signal.

Value in ( ) is DC voltage at rated power. ←mA; DC current at no input signal.

#### 4.OTHERS:

⇒ ; Signal route.

②; Adjusting point

The A mark found on some component parts indicates the inportance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

\* marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

#### 5.SWITCHES:

DISPLAY ASSEMBLY

S701 : POWER S708 : CD 5702 : LSS SET 5709 : LD S703 : LSS MODE S710 : VCR

5704 : PHONO 5712 : DIRECT MODE S705 : TUNER S713 : MUTING

5706 : TAPE S714 : SPEAKERS A/B OR

S707 : DAT A+B

16

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4. 1 OVER ALL SCHEMATIC DIAGRAM

CASSETE TAPE DECK CN202 6 V (ST-BY) | 45 . 6 V | 8 c h | 1 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h | 2 c h PLAY R
PLAY L
GMD (S1G)
PLAY L
GMD (S1G)
PLAY L
AC (FL)
AC (FL DISPLAY asse CN1 02 - PHONO - VCR IN - VCR OUT O RCH
O GNO
O LCH
O GND
O LCH
O AND
O +27V
O +5.5V (ST-BY)
O AC (FL)
O -51V
O -51V
O EN/REQ(TX)
O SC
CN201 POWER assembly (AWZ 2747) AF assembly (AWZ3403) TUNER CN201 TURNTABLE (DC12V OUTPUT) JACK POWER VR assembly DAC assembly (AWK 1385) DIGITAL - DAT OUT MIC assembly DSP assembly (AWK 1445)

D

2

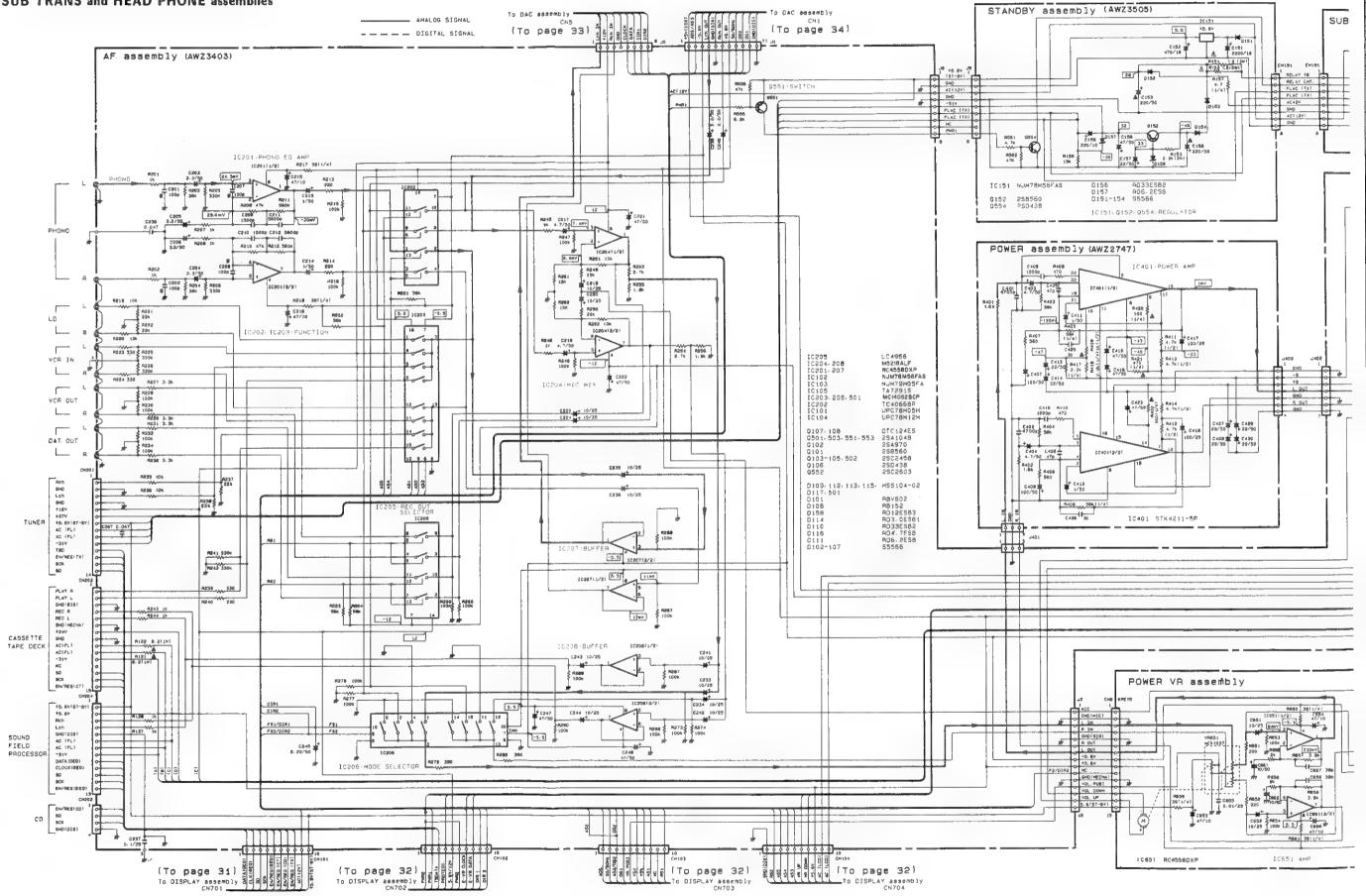
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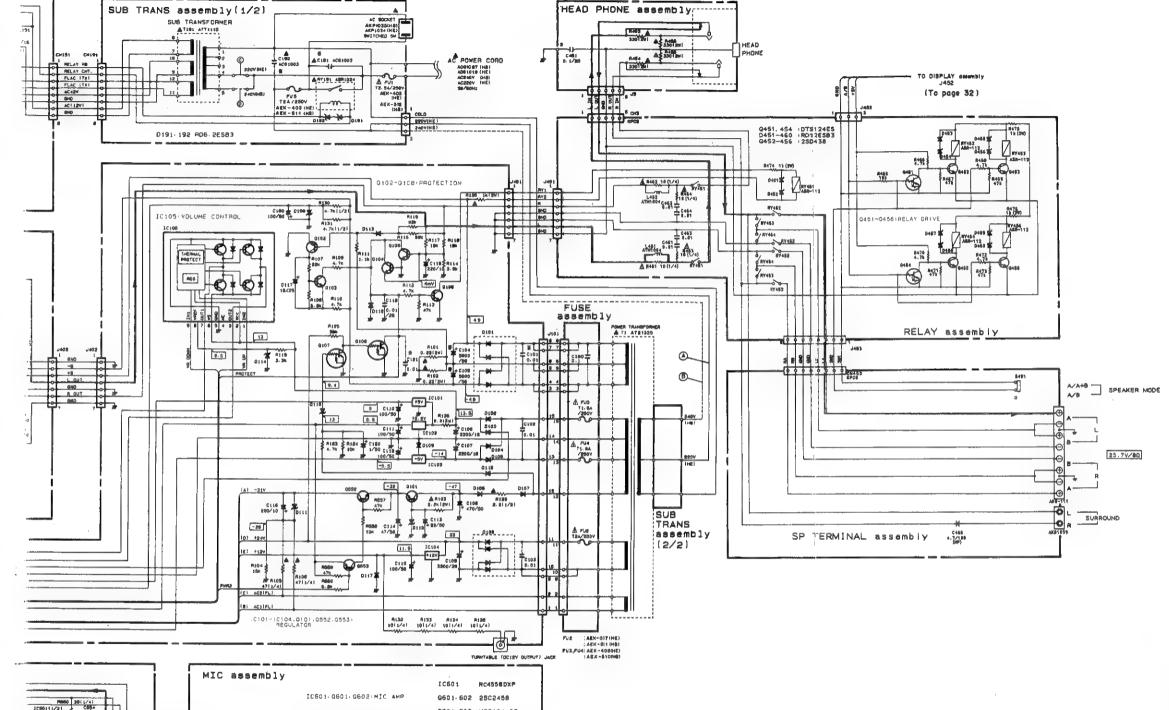
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4. 2 AF(AWZ3403), STANDBY(AWZ3505), SP TERMINAL, FUSE, POWER(AWZ2747), MIC, POWER VR, RELAY, SUB TRANS and HEAD PHONE assemblies







# | NOTE | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

Line Voltage Selection (HE, HB AND HEWZIW TYPES) Line voltage can be changed with the following steps.

1. Disconnect the AC power cord.

2. Remove the top cover.

3. Change the position of the connection wires to SUB TRANS ASSEMBLY (1/2) from SUB TRANS ASSEMBLY (2/2) as follows.

Voltage	Connection WireA	Connection Wire®
220V	0	×
240V	×	0

O: Be needed X: Be needless

4.Change the position of the jumper wires (C) and (D) as follows. (SUB TRANS ASSEMBLY(1/2)).

Voltage	Jumper Wire©	Jumper Wire®
220V	0	×
240V	×	0

O: Be needed

X: Be needless

5. Stick the line voltage label on the rear panel.

Parts No.	Description	
AXX-193	220V label	
AXX-192	240V label	

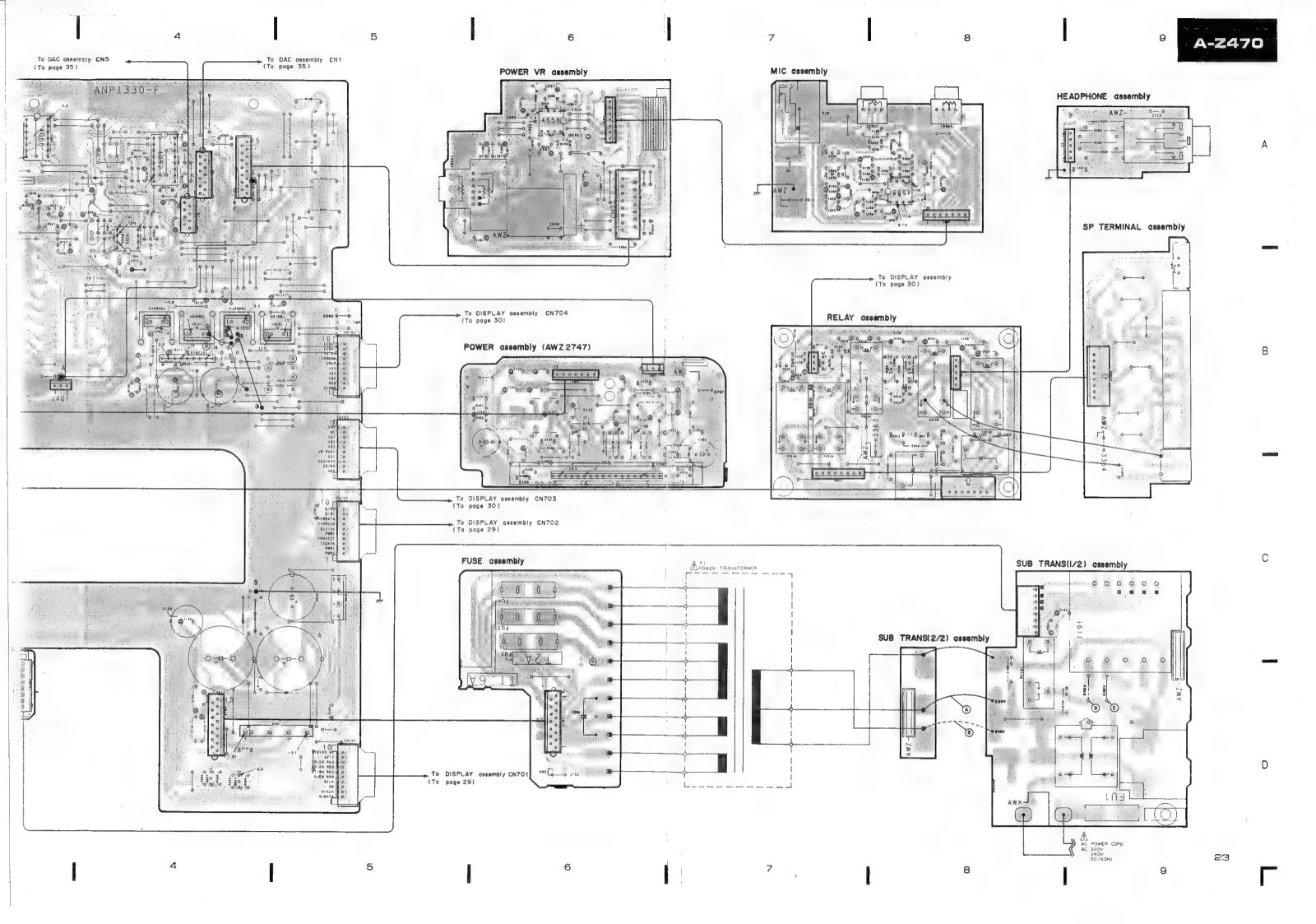
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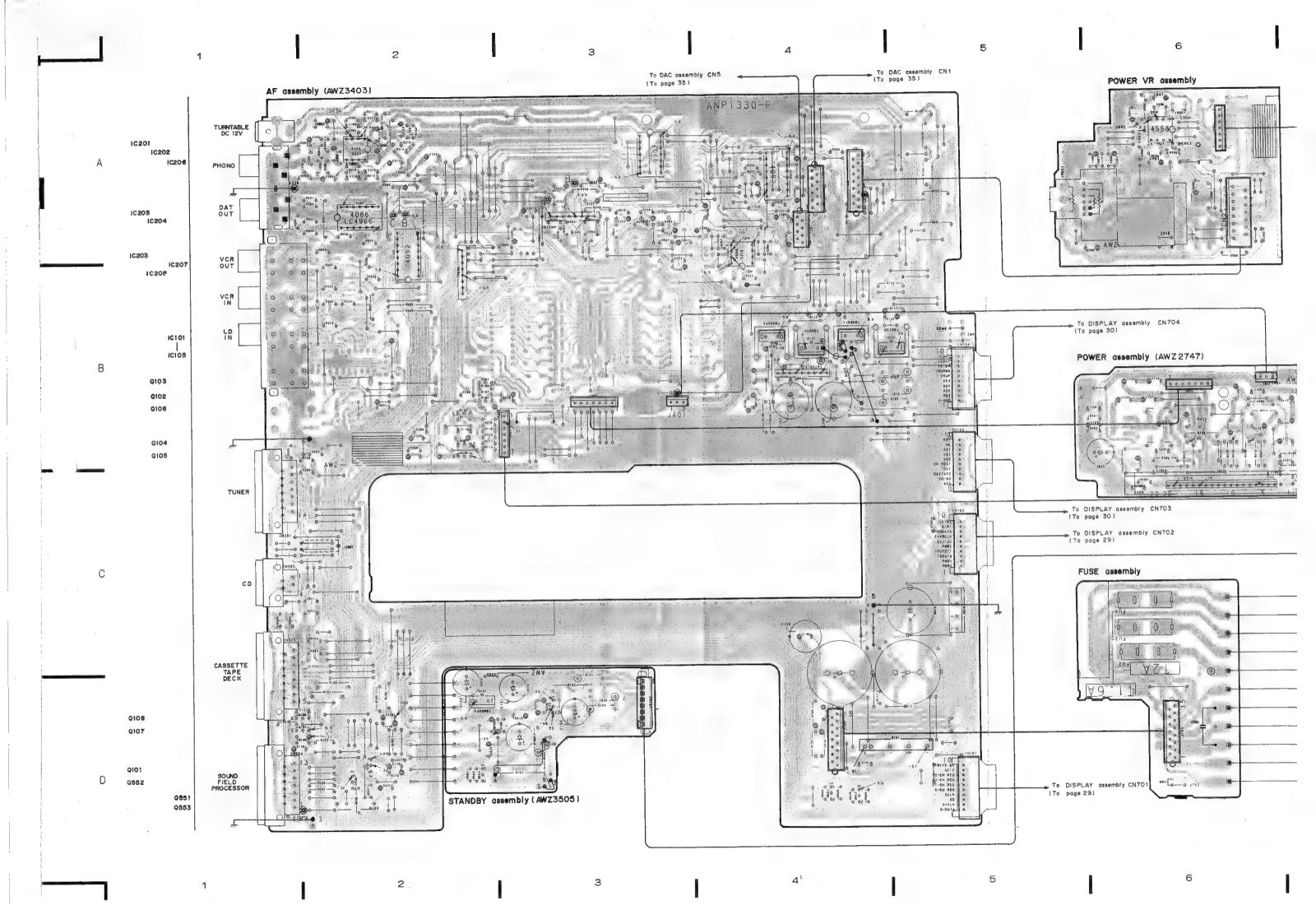
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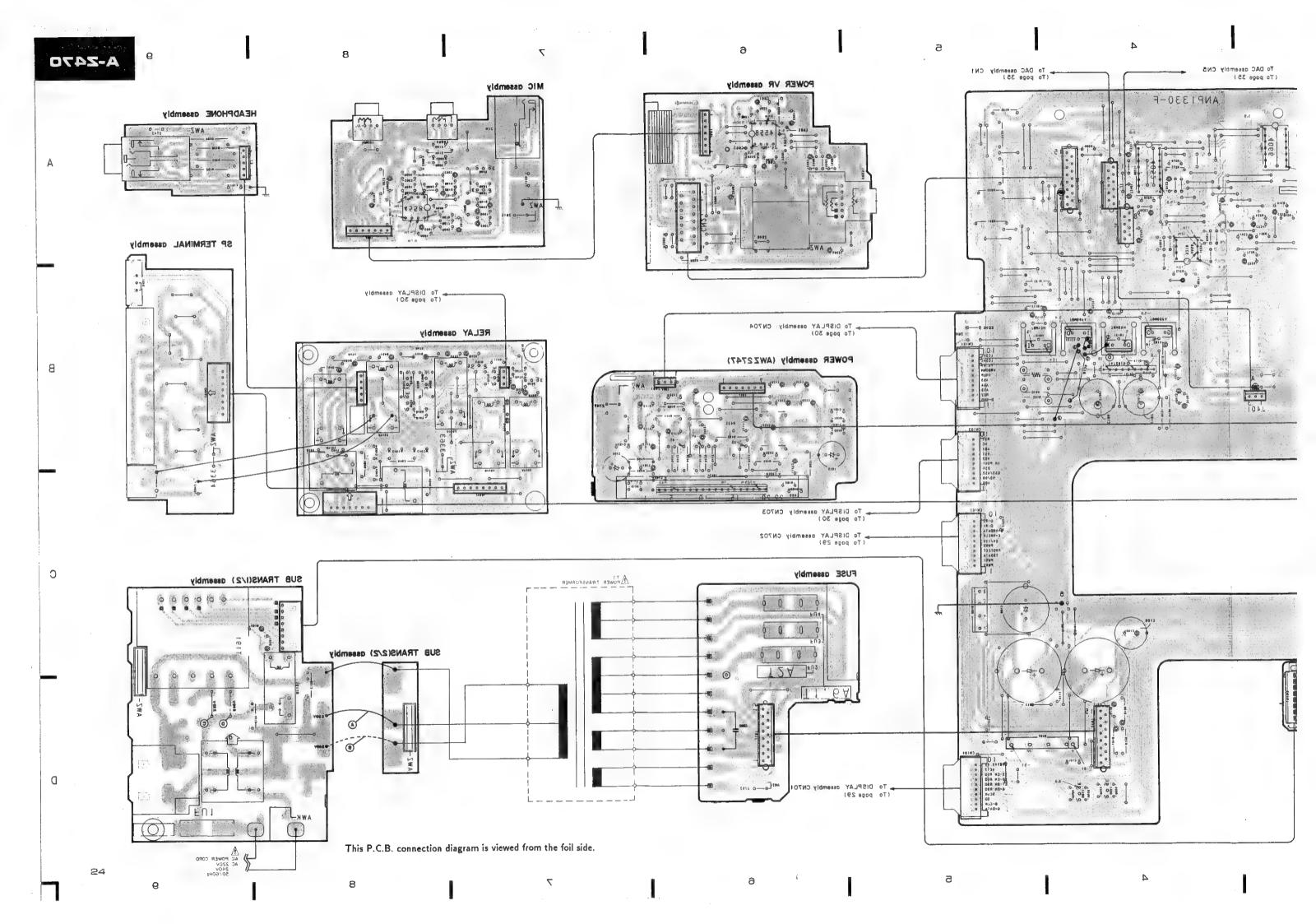
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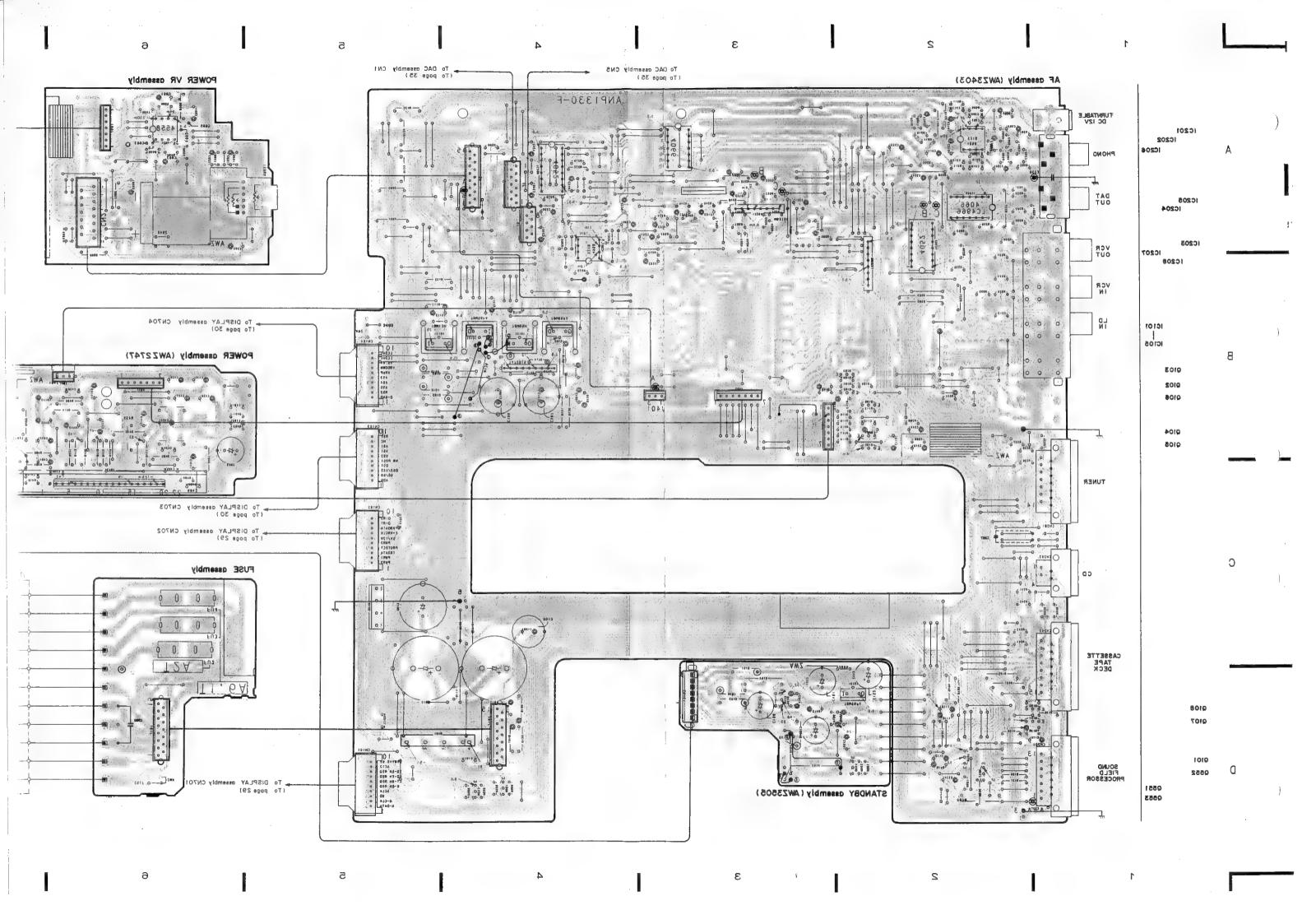
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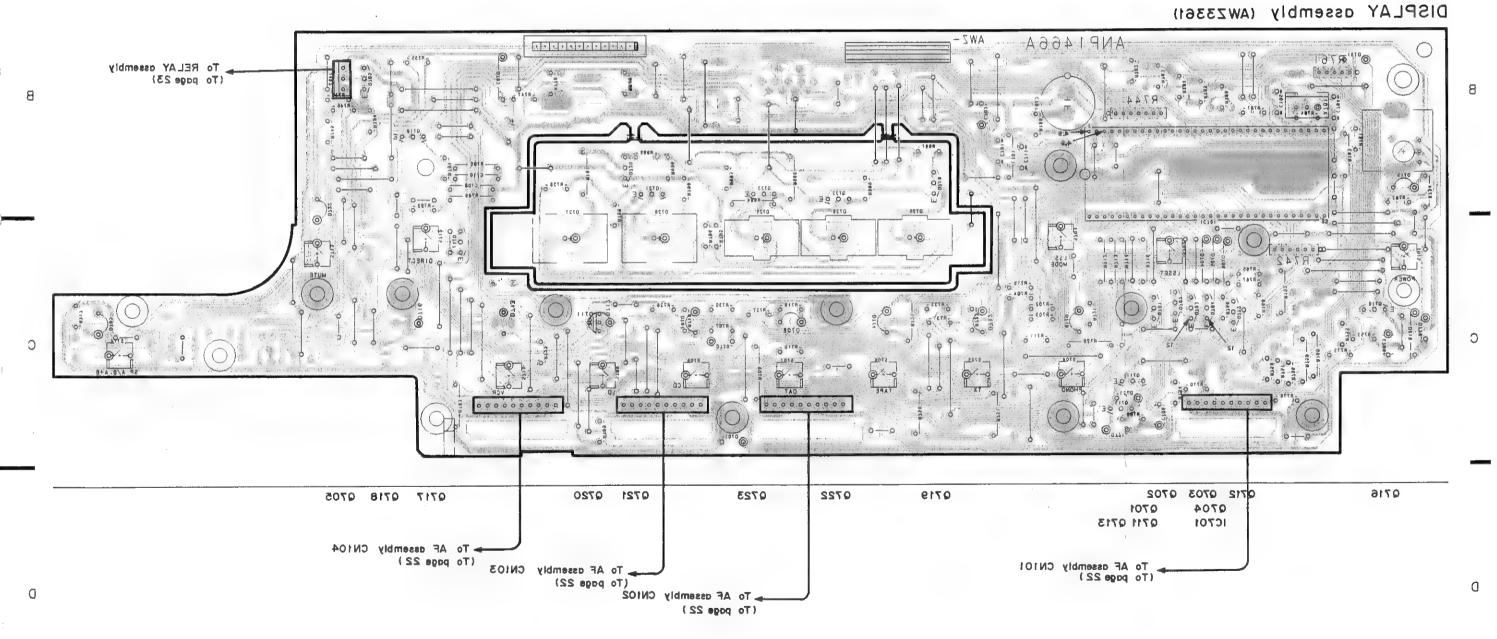






4. 3 DISPLAY (AWZ3361) assembly

This P.C.B. connection diagram is viewed from the foil side.



A-Z470

# 4. 3 DISPLAY (AWZ3361) assembly

**1

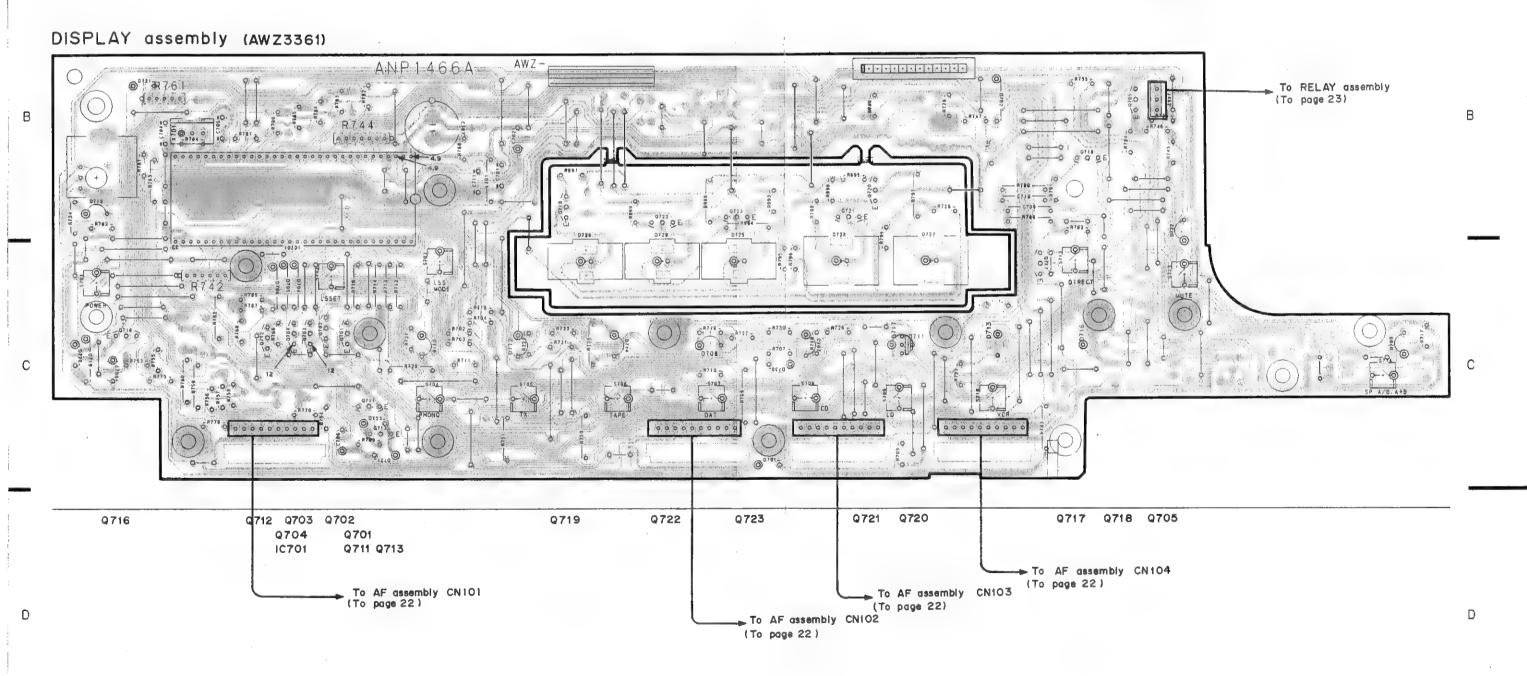
- 2. The parts which have been mounted on the board can limit replaced with those shown with the corresponding wirting symbols listed in the following Table.

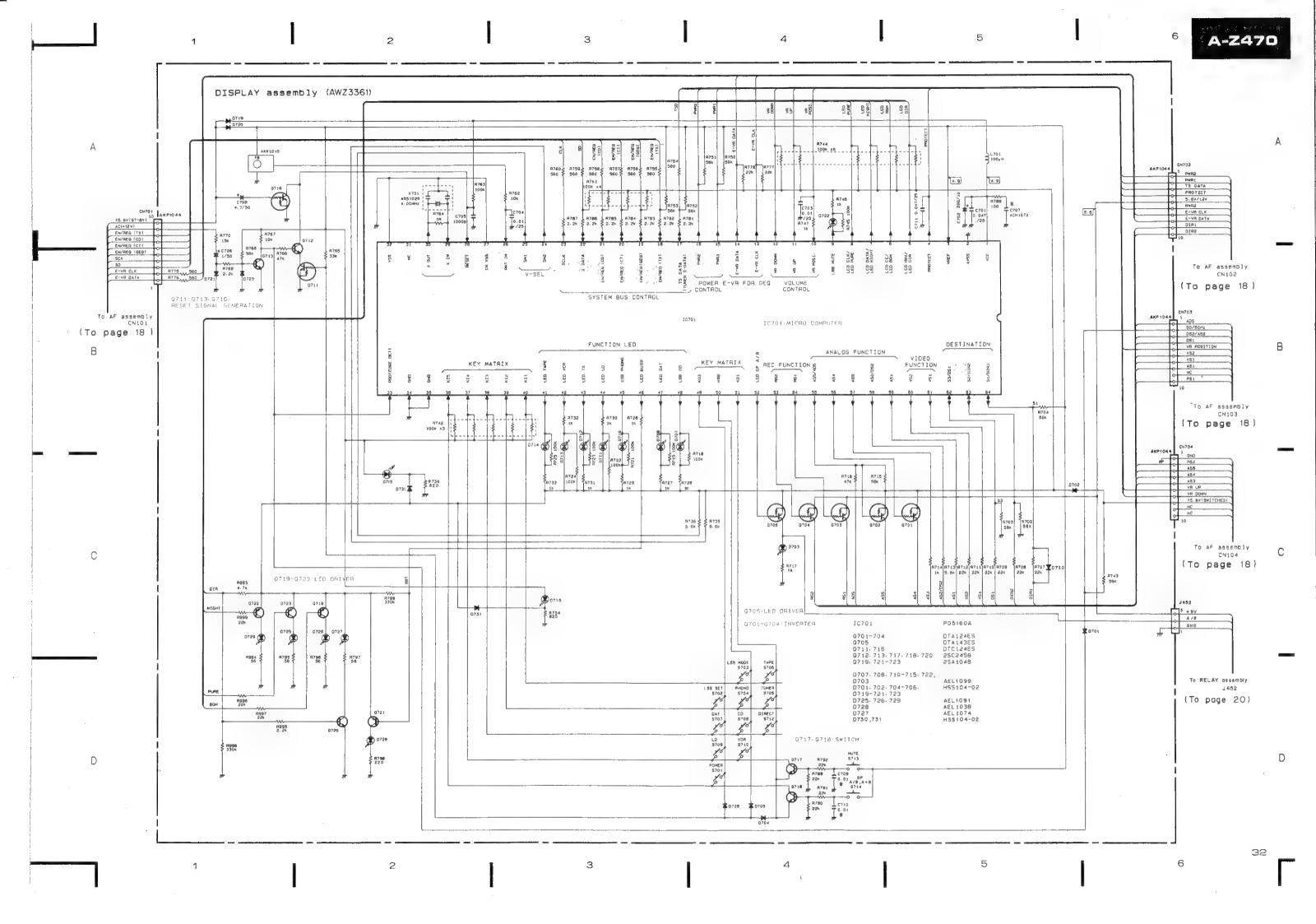
P.C.B. pattern diagram Indication	Corresponding pert symbol	Part Name
E 0 0 0		Transistor
0 0 0		Redistor type translator
© 0203 —	0203	Diode
o −R237 − iii	R237 0	Resistor
(€ C513	<u>0</u> +□+0	Capacitor (Polarity)
∦ C518 ∦	⊶1⊢	Capacitor (Non-polarity)

P.C.B, pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coll
	Filter
VR	Variable resistor or Semi-fixed resistor

- 3. The capactor terminal marked with () (double circles) shows negative termina
- The diode terminal marked with () (double circles) shows cathode side.

  The translator terminal to which E is affixed shows the emitter.

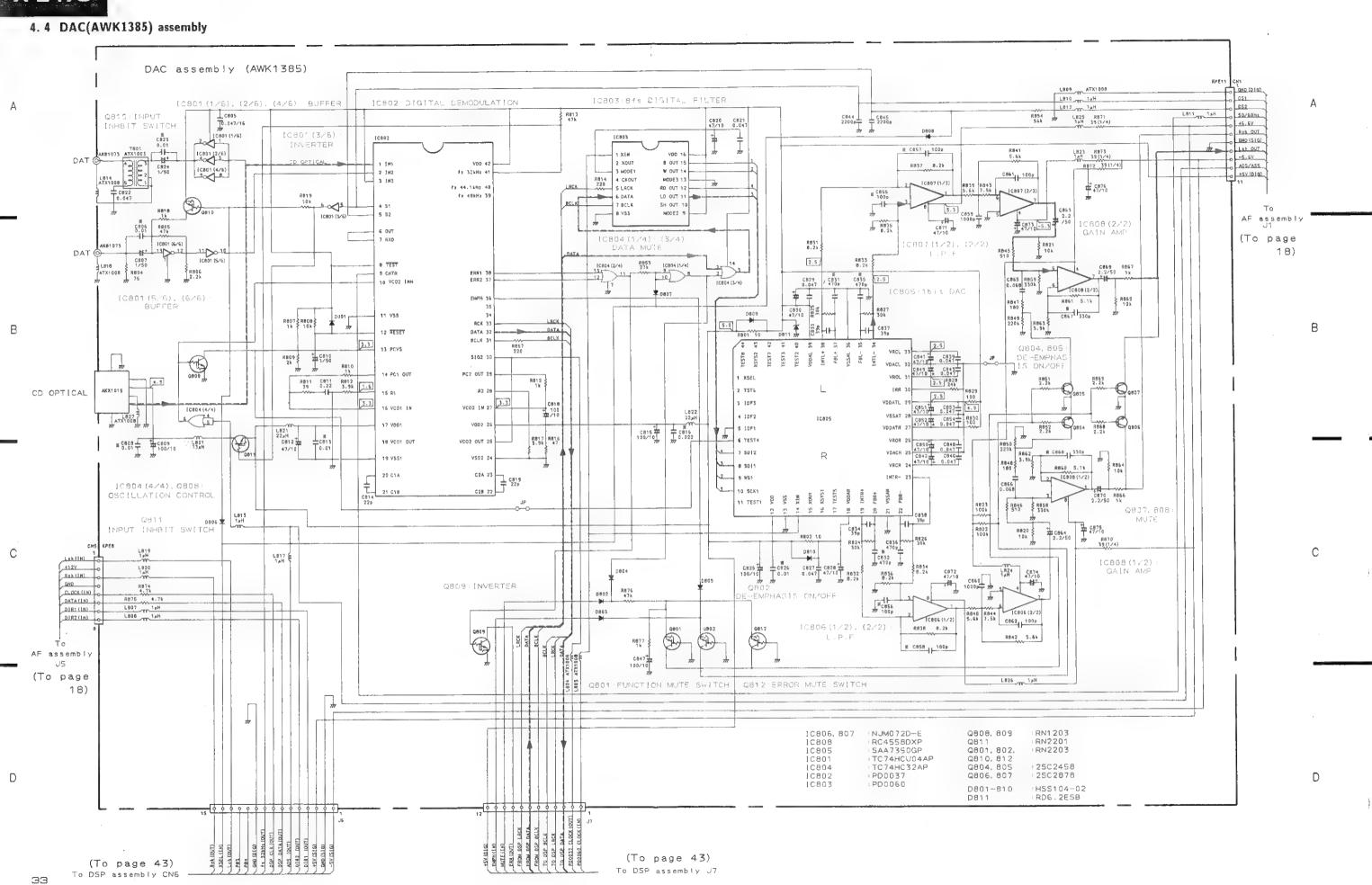


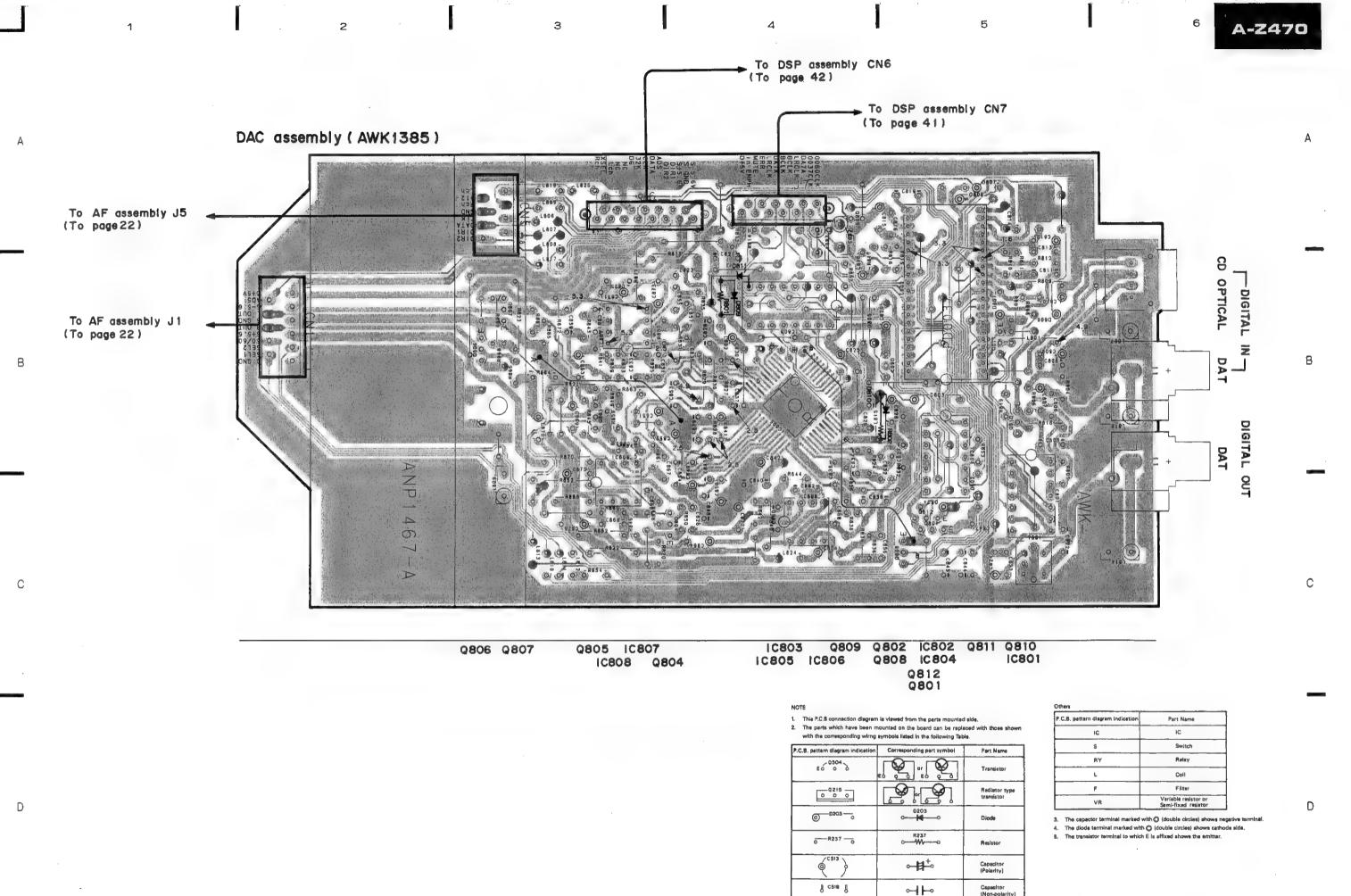


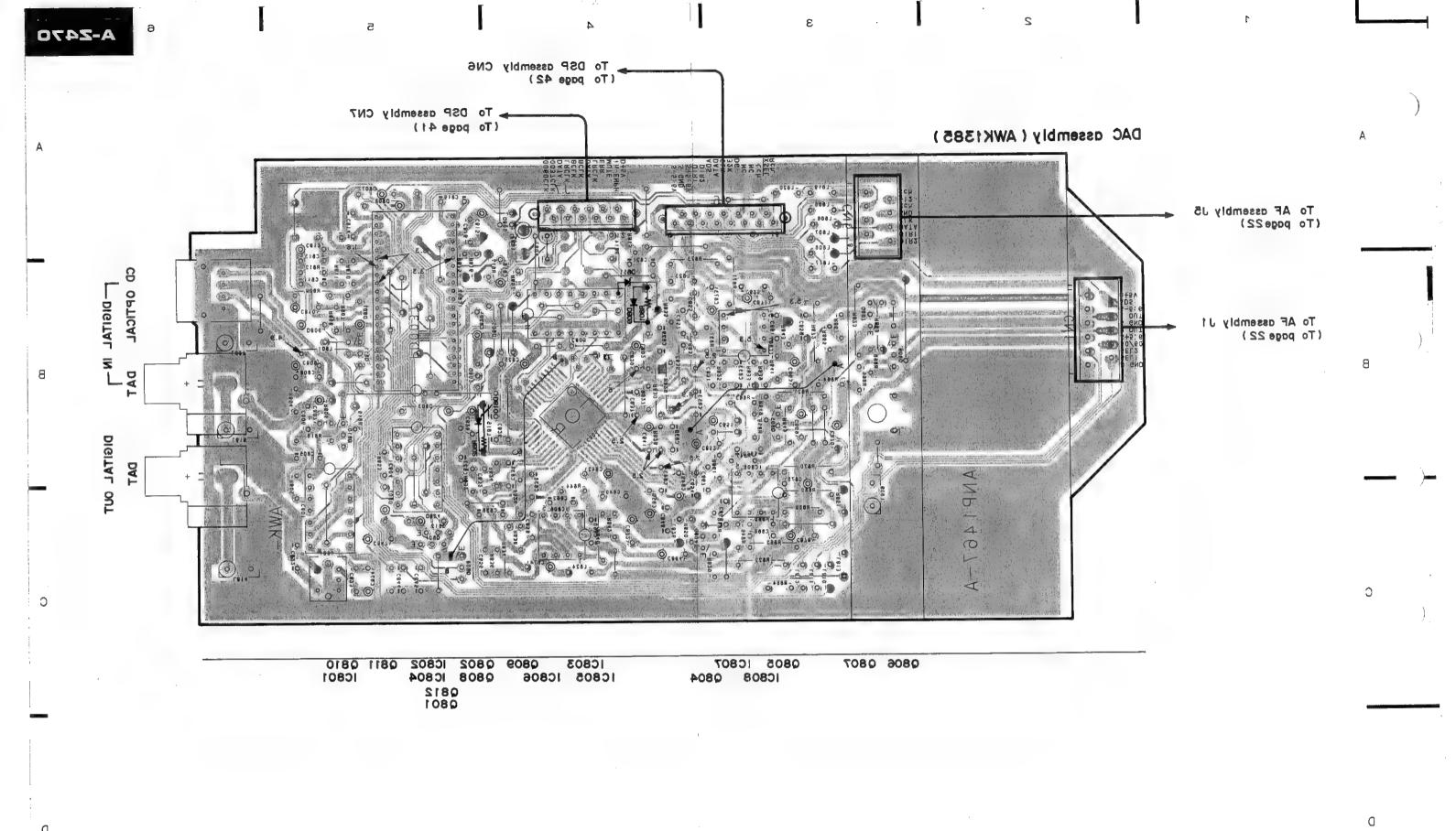
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; **I** 



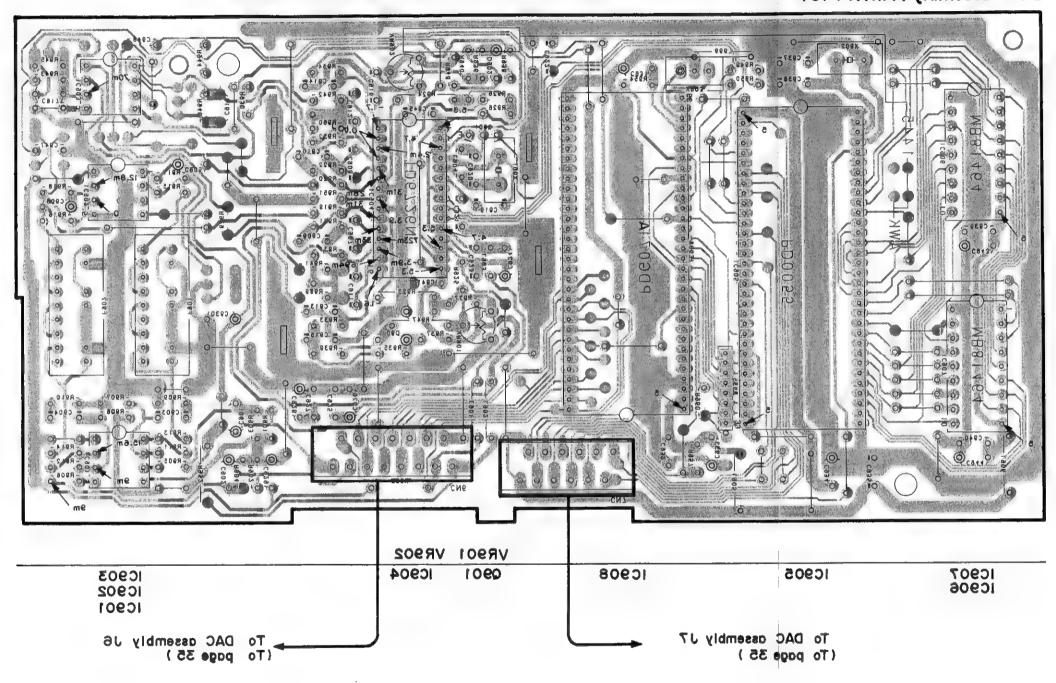




This P.C.B. connection diagram is viewed from the foil side.

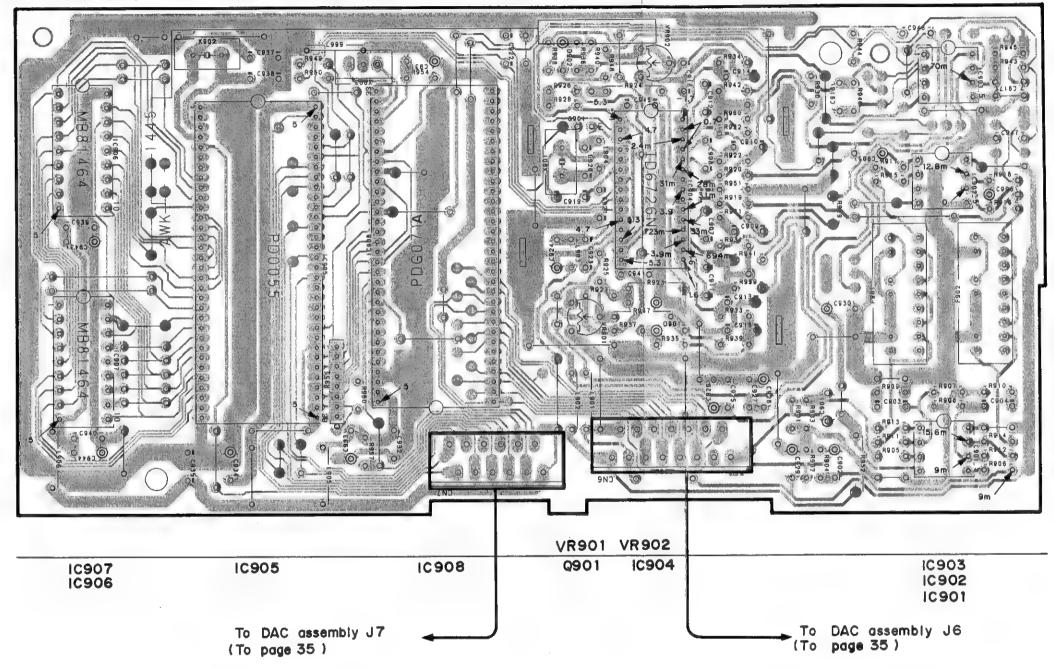
# 4. 5 DSP(AWK1445) assembly

# DSP assembly (AWK1445)



This P.C.B. connection diagram is viewed from the foil side.

# DSP assembly (AWK1445)



- This P.C.8 connection diagram is viewed from the parts mounted side.
   The parts which have been mounted on the board can be replaced with with the corresponding wirng symbols listed in the following Table.

P.C.B. pattern diagram Indication	Corresponding part symbol	Part Namu
E 0 0 0		Transistor
0 0 0		Radietor type transistor
⊚0203°	O H O	Diode
O #237	0	Resistor
(C513 )	o- <b>目</b> <sup>†</sup> o	Capacitor (Polarity)
g care g	<b>→</b> 1 ⊢•	Capacitor (Non-polarity)

P.C.B. pattern diegram indication	Part Name
IC	IC
S	Switch
RY .	Relay
L	Coll
F	Filter
VR	Variable resistor or Semi-fixed resistor

- 3. The capactor terminal marked with 

  (double circles) shows negative terminal marked with 

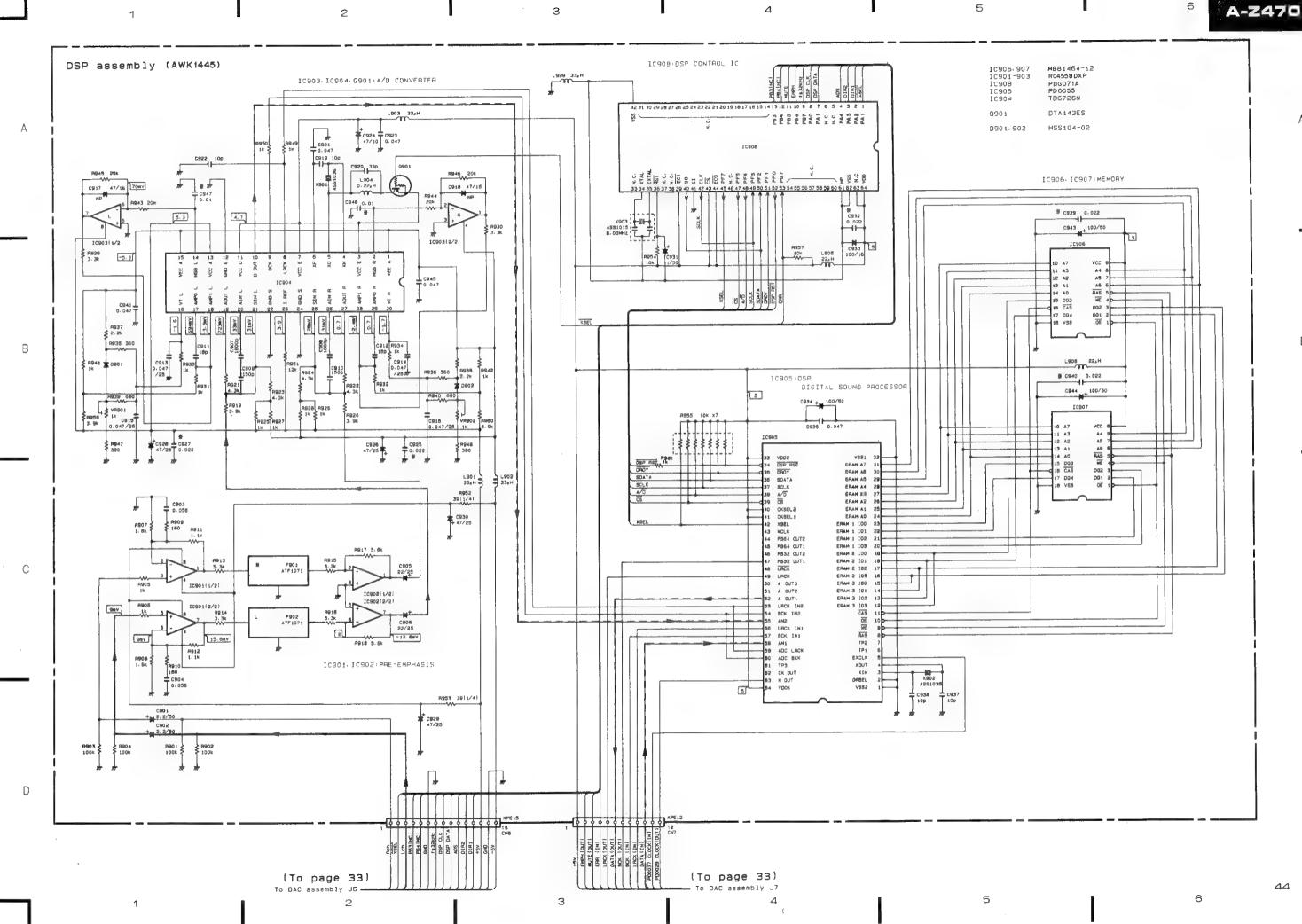
  (double circles) shows cathode side.

  The diode terminal marked with 

  (double circles) shows cathode side.

  The transistor terminal to which E 

  iii effixed shows the emitter.



# 5. ADJUSTMENTS

- 1. If the SP-Z570(sound field processor) is connected to the A-Z470, disconnect them. (This makes DSP processing in the A-Z470 flat.)
- Input 1kHz/600mV to LD INPUT AUDIO Lch and Rch, then turn function to LD, followed by turning the main VR into the center position.
- Adjust the VR901(Rch) and VR902(Lch) until the distortion of the Lch and Rch is minimized(0.15% or less) at the speaker output.

# 5. RÉGLAGE

- 1. Si le SP-Z570(processeur de champ d'ambiance) est connecté au A-Z470, les déconnecter. (Ceci neutralise le traitement DSP dans le A-Z470.)
- Enter 1kHz/600mV aux bornes gauche et droite d'entrée audio LD(LD INPUT AUDIO), mettre le sélecteur de fonction sur "LD", suivi du réglage de la résistance variable(VR) principale à la position centrale.
- Régler VR901 (D) et VR902 (G) jusqu'à ce que la distorsion des canaux gauche et droit soit réduite (0,15% ou moins) à la sortie des haut-parleurs.

# 5. AJUSTE

- Si el SP-Z570(procesador de campo sonoro) está conectado al A-Z470, desconéctelos. (De este modo el procedo DSP en el A-Z470 será plano.)
- Introduzca 1kHz/600mV en los canales izquierdo y derecho de INPUT AUDIO del LD, cambie entonces la función a LD, y gire luego la VR principal a la posición central.
- Ajuste la VR901 (canal derecho) y VR902 (canal izquierdo) hasta que la distorsión de los canales izquierdo y derecho se minimice(0.15% o menos) en la salida del altavoz.

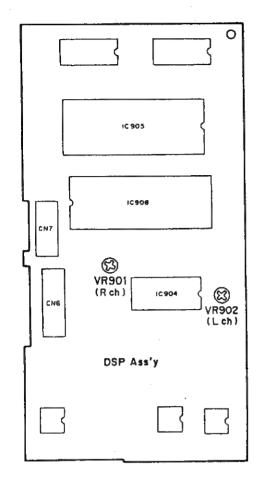


Fig. 5-1. Adjustment location

Fig. 5-1. Emplacements de réglage

Fig. 5-1. Puntos de ajustes

# 6. FOR HB AND HEWZIW TYPES

#### NOTES:

- Parts without part number cannot be supplied.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The A mark found on some component parts indicates the importance of the safety factor of the part.

  Therefore, when replacing, be sure to use parts of identical designation.

## **CONTRAST OF MISCELLANEOUS PARTS**

The A-Z470/HB and HEWZIW types are the same as the A-Z470/HE type with the exception of the following sections.

Mark	S. L. L. B. D. L. L.	Part No.			
Mark	Symbol & Description	HE type	HB type	HEWZIW type	Remarks
•	AF assembly	AWZ3403	AWZ3403	AWZ3406	
	POWER assembly	AWZ2747	AWZ2747	AWZ2744	
	SP TERMINAL assembly	Non supply	Non supply	Non supply	
	POWER VR assembly	Non supply	Non supply	Non supply	
	HEAD PHONE assembly	Non supply	Non supply	Non supply	
*	SUB TRANS assembly	Non supply	Non supply	Non supply	
	MIC assembly	Non supply	Non supply	Non supply	
Δ	AC power cord	ADG1019	ADG1087	ADG1012	
⚠	FU1 Fuse	AEK-403	AEK-512	AEK-403	
Δ	FU2 Fuse	AEK-017	AEK-511	AEK-017	
$\Delta$	FU3,4 Fuse	AEK-405	AEK-510	AEK-405	
Δ	FU5 Fuse	AEK-403	AEK-511	AEK-403	
	PWB Screw	ABA-283	ABA-283	121122444	
	Operating instructions	ARC1249		***********	
	(Dutch, Swedish, Spanish, Portguese)				
	Operating instructions	ARE1181	********	***********	
	(English, German, French, Italian)				
	Operating instructions (English)	44111144444	ARB1291	**********	
	Operating instructions (German)	**********	*********	ARC1247	

# AF assembly (AWZ3406)

The AF assembly(AWZ3406) is the same as the AF assembly(AWZ3403) with the exception of the following sections.

Mark	5-1-14-5-12	Part No.		
	Symbol & Description	AWZ3403	AWZ3406	Remarks
	C102, C103	CKDYF103Z50	CKDYF473Z50	
	C341-344, 347-349,	,,,,,,,,,,,,	CKDYF473Z50	
	383, 386, 387			
	C345, 346	**********	ĊQMA104K50	
	C351, 352		ACG1020	
	C353, 354, 357, 358,	***********	CKDYB331K50	
	361, 362			
	C355, 356, 359, 360,	*********	ACG1018	
	363, 364, 373-382			
	C384, 385	311141141103	CKDYB391K50	
	R201, 202	RD1/8PM102J	RD1/8PM222J	

# POWER assembly (AWZ2744)

The POWER assembly(AWZ2744) is the same as the POWER assembly(AWZ2747) with the exception of the following sections.

Mark	rk Symbol & Description	Part		
Mark		AWZ2747	AWZ2744	Remarks
	C405, 406	CCDSL470J50	CCDSL221J50	
	C431, 432	*******	CCDSL101K500	
	C433, 434	*********	CCDSL101J50	
	C435, 436	*********	CKDYB331K50	
	R425	*********	RD1/8PM100J	

# SP TERMINAL assembly

The SP TERMINAL assembly (HEWZIW type) is the same as the SP TERMINAL assembly (HE and HB types) with the exception of the following sections.

Mark	Combata D	Part No.		_
wark	Symbol & Description	HE, HB types	HEWZIW type	Remarks
-	C365, 366	************	CFTXA103J50	
İ	C471-482	100000000	CQMXA103J100	
	L353, 354	*********	ATH1002	

## POWER VR assembly

The POWER VR assembly (HEWZIW type) is the same as the POWER VR assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		
		HE, HB types	rpes HEWZIW type	Remarks
	C663-665	*******	CKDYB103K50	
	C666, 667	*********	CCDSL470J50	
	R700	**********	RD1/8PM100J	•

# **HEAD PHONE assembly**

The HEAD PHONE assembly (HEWZIW type) is the same as the HEAD PHONE assembly (HE and HB types) with the exception of the following sections.

Mark Symbol & Description	Symbol & Description	Part	Part No.	
	HIGH	Symbol & Description	HE, HB types	HEWZIW type
	C369, 370	**********	CKDYX473M25	
		•		
			·	

# SUB TRANS assembly

The SUB TRANS assembly (HB type) is the same as the SUB TRANS assembly (HE and HEWZIW types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		
		HE, HEWZIW types	HB type	Remarks
	AC socket (OUTLET 1P)	AKP1034	AKP1035	

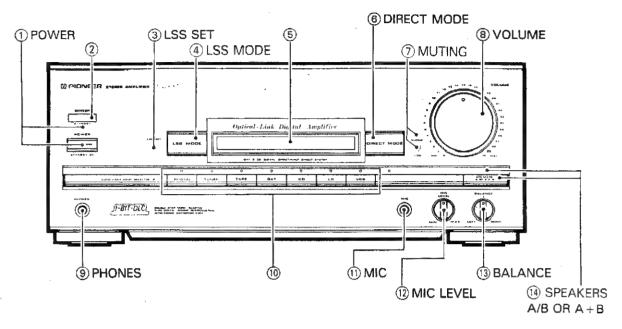
# MIC assembly

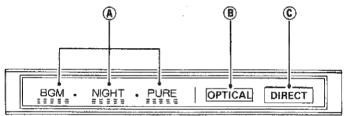
The MIC assembly (HEWZIW type) is the same as the MIC assembly (HE and HB types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		
		HE, HB types	HEWZIW type	Remarks
	C371	************	ACG1020	
	C372	B000000000	ACG1017	
	C604	ACG1017	ACG1020	
	L501	***********	LAUR56M	
	R351	**********	RD1/8PM222J	

# 7. PANEL FACILITIES

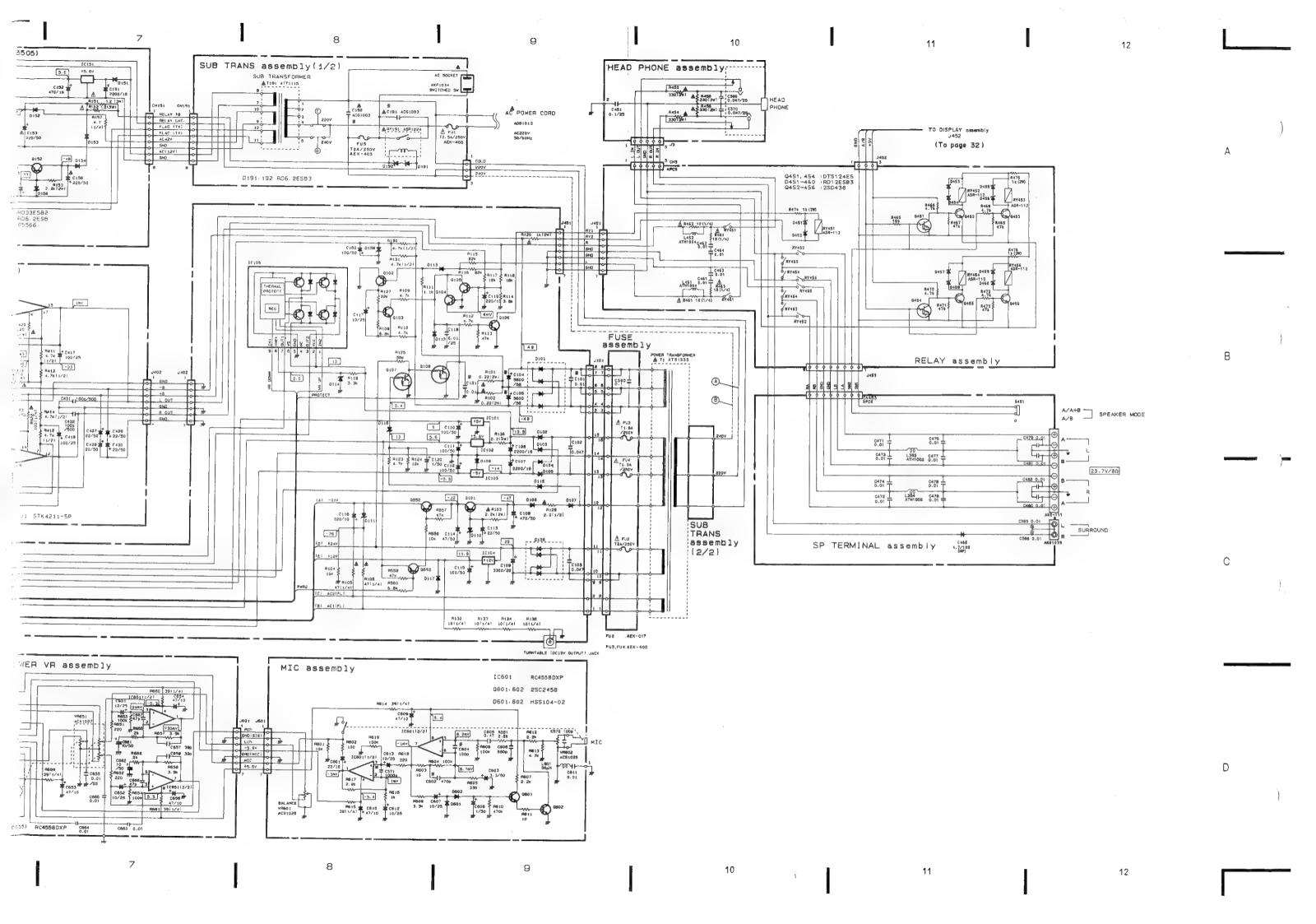
Front panel and display section

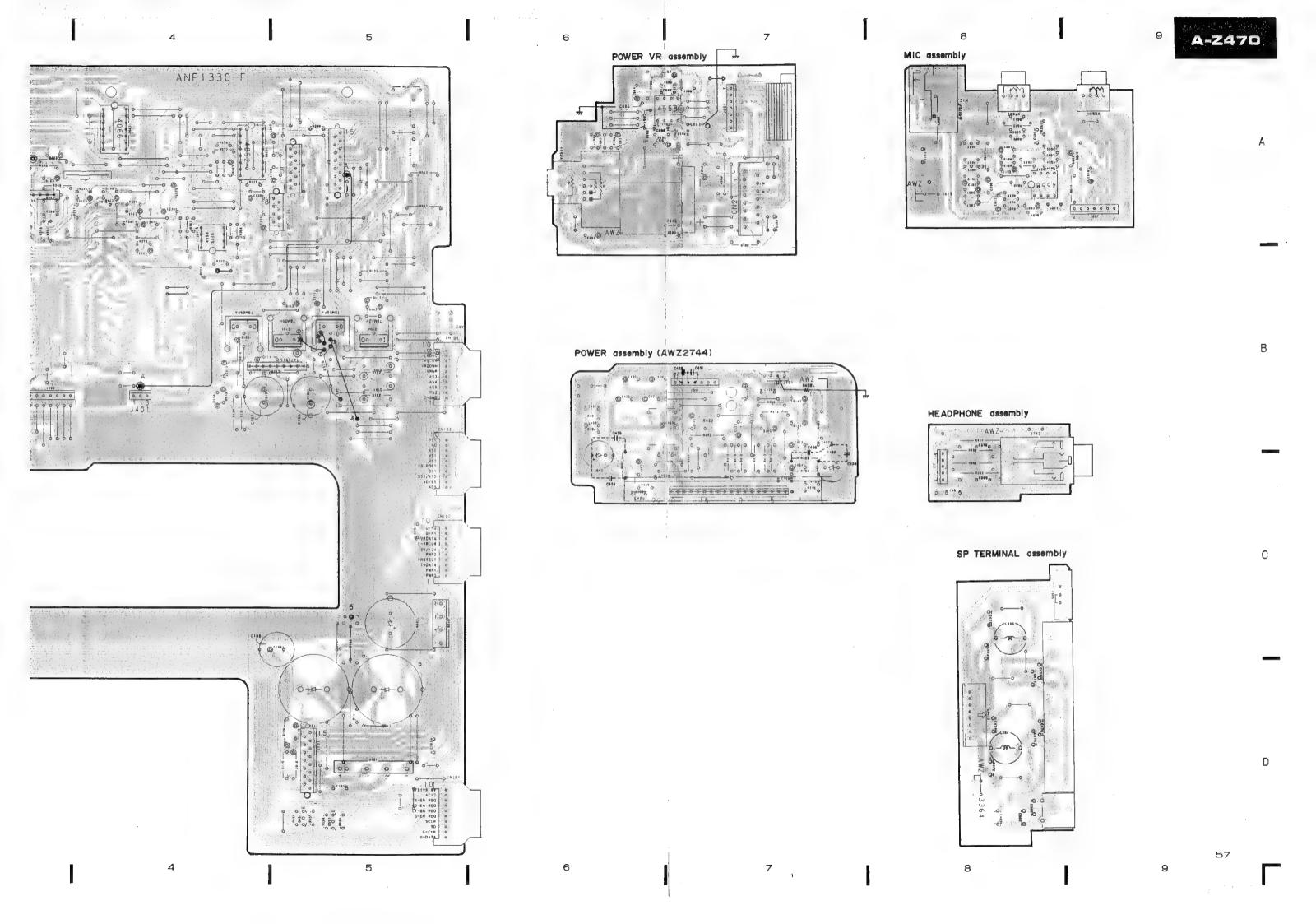


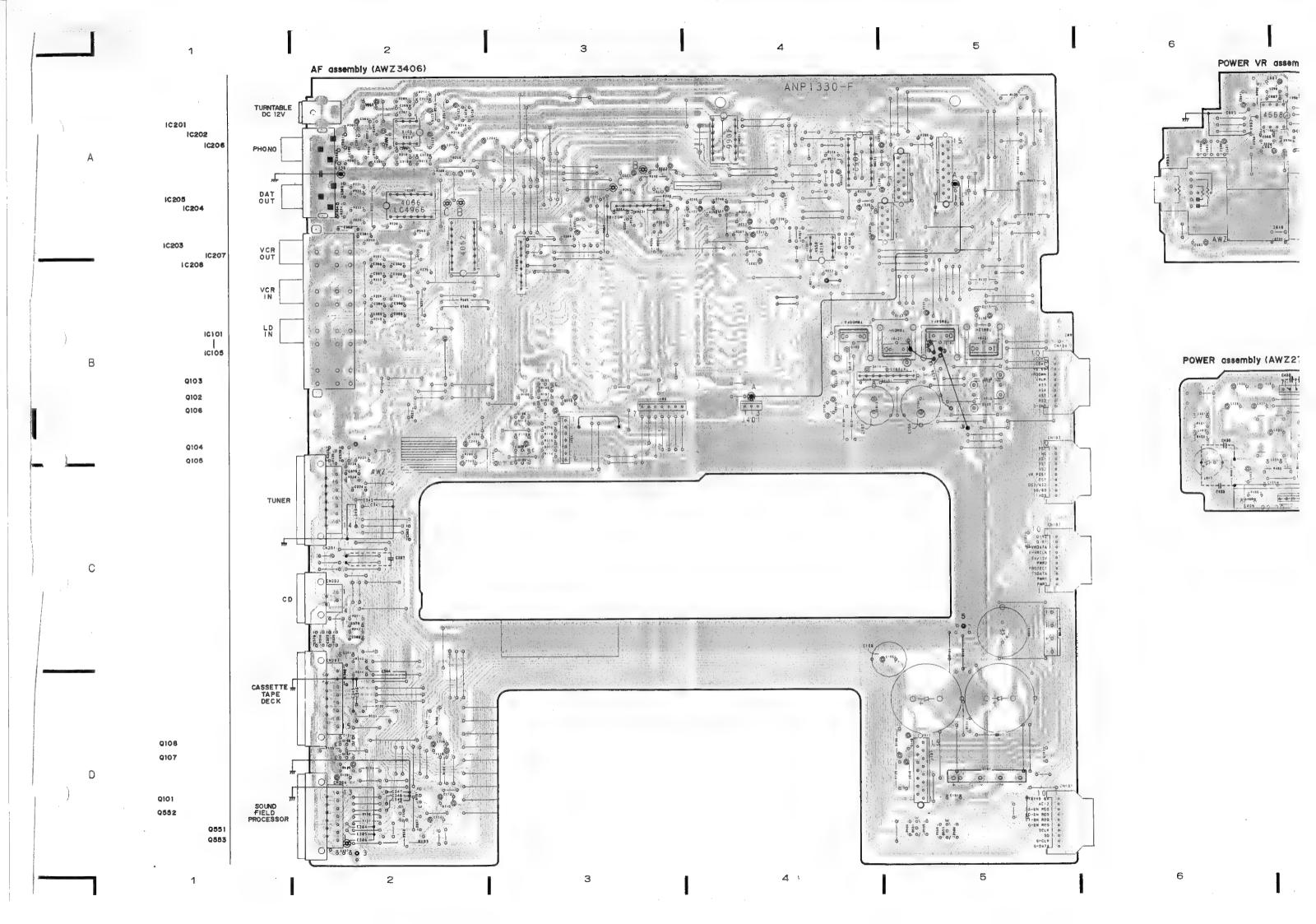


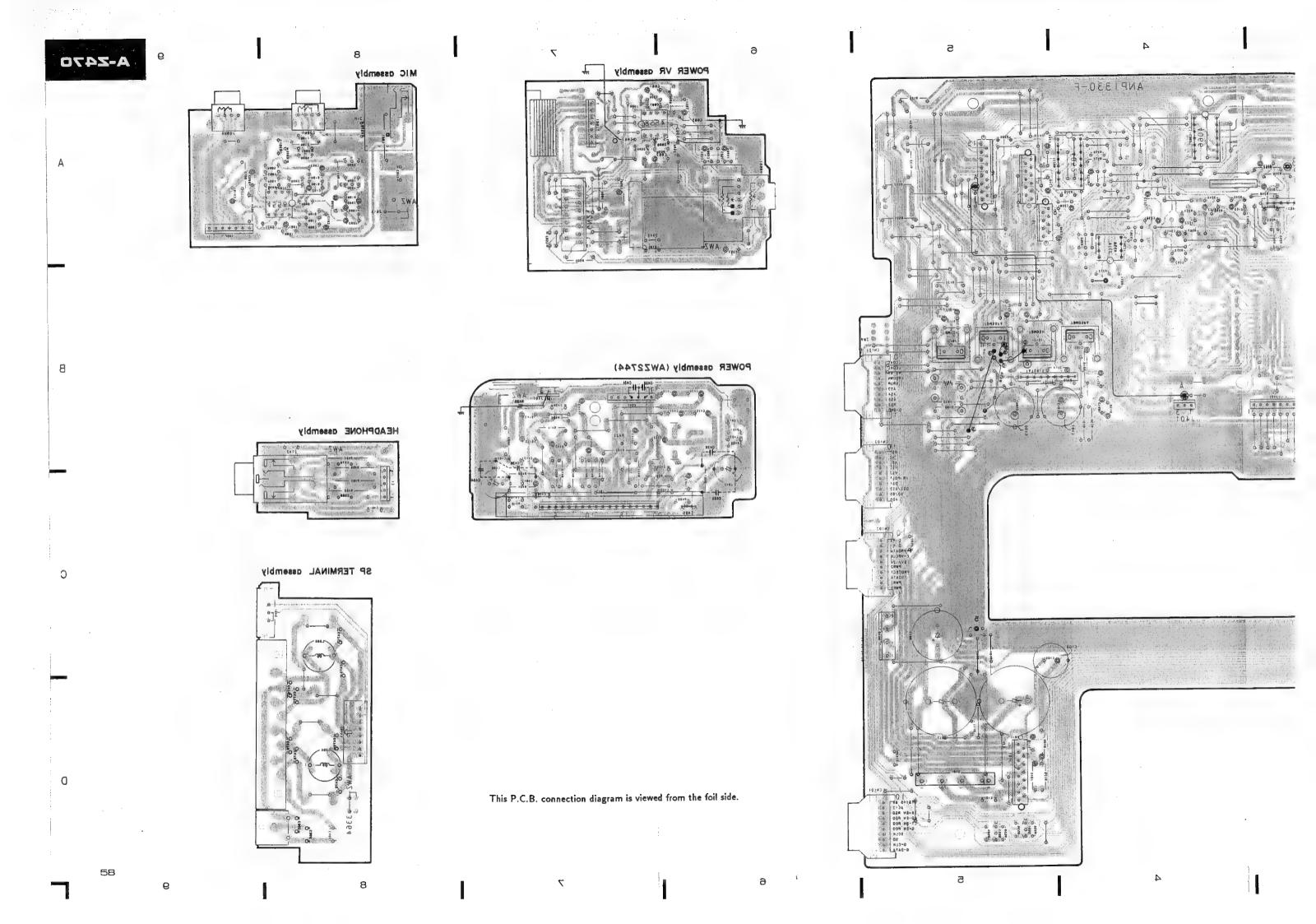
3

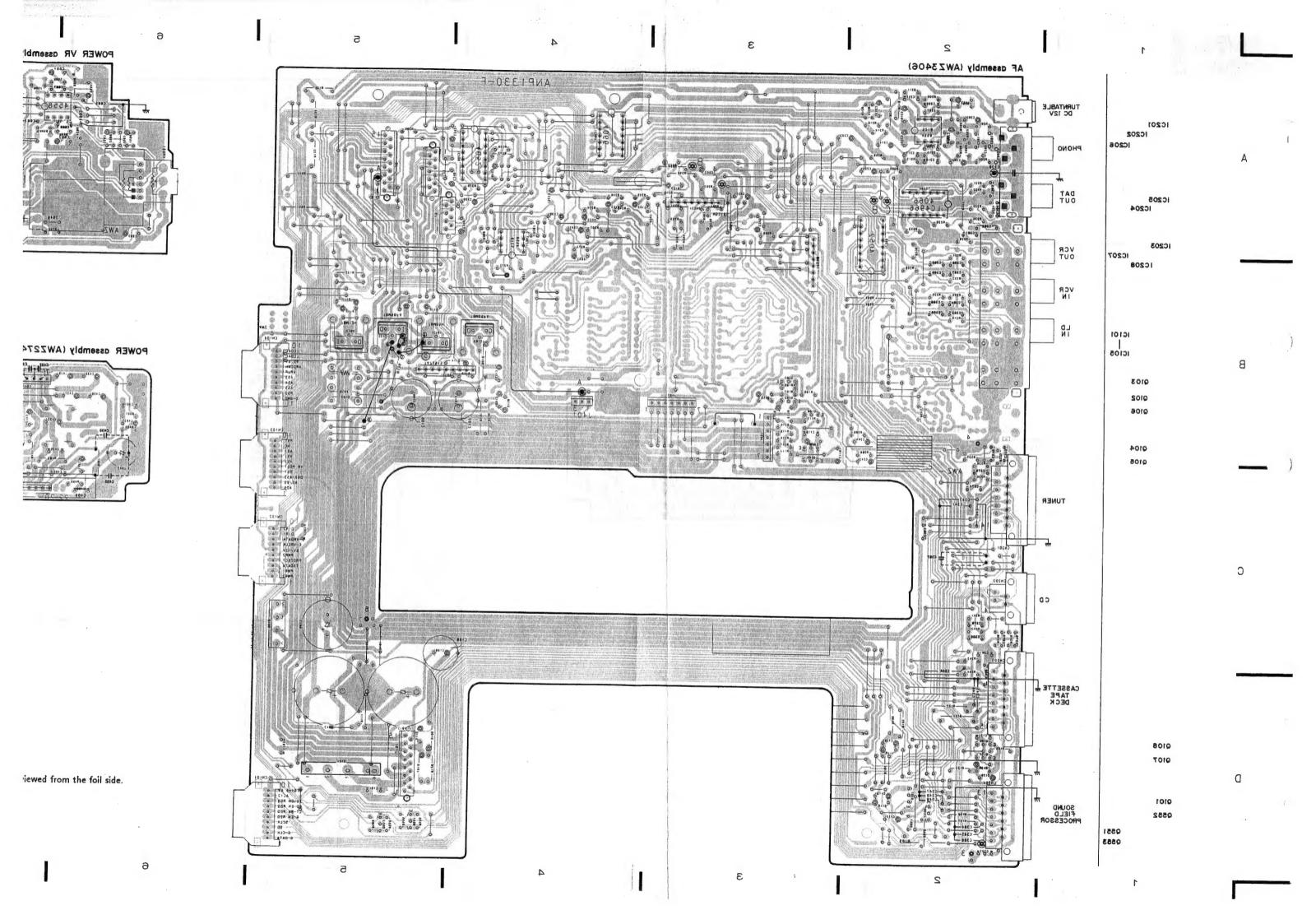
5











#### 1) POWER STANDBY/ON switch/indicator

This is the switch for electric power.

**ON** .... When set to the ON position, power is supplied and the unit becomes operational.

**STANDBY** .... When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

The indicator above the switch lights when the power is STANDBY, and goes out during ON.

#### (2) Remote sensor

#### (3) LSS SET button

Use to operate the Listening Style Selector memory.

#### (4) LSS MODE button

Use to call the Listening Style Selector.

## (5) Display section

- A This shows the position of the listening style selector.
- (8) This lights when you play a CD.
- © This lights when you can select CD and DAT direct mode.

#### 6 DIRECT MODE button

Use this when you want by-pass sound quality adjustment circuitry and listen to a CD or DAT in the direct mode.

#### (7) MUTING button/indicator

Use when you want to temporarily cut sound during playback, Press again to return to the previous volume level.

#### **® VOLUME control**

#### 9 PHONES jack

For stereo headphones.

#### NOTE:

There is no output from the speakers when headphones are plugged into PHONES jack.

#### (10) Input selector buttons/indicators

#### [PHONO]

Press to play records on a turntable connected to the PHONO input lacks.

#### [TUNER]

Press to listen to radio broadcast.

#### [TAPE]

Press to listen to cassette tape.

#### [DAT

Press to listen to a DAT playing on a digital audio tape deck connected to the DAT jacks.

#### (CD)

Press to listen to compact disc.

#### Don.

Press to play an LD on a video disc player connected to the LD input jacks.

#### **(VCR)**

Press to play a tape on a video cassette recorder connected to the VCR jacks.

#### (1) MIC (microphone) jack

This is a standard jack for connecting a microphone.

#### MOTE

Microphone mixing is not possible when CD DIRECT or DAT DIRECT are ON.

#### 12 MIC LEVEL control

Used for adjusting the volume of microphone.

#### (13) BALANCE control

Used for changing the balance between left and right channels. Usually sets this control to the center position.

#### (4) SPEAKERS button (A/ B OR A + B)/indicator

When the SPEAKER MODE selector switch on the rear panel is set to the A/B (left), use this button to switch between sound from speakers A only, and sound from speakers B only.

When the SPEAKER MODE selector switch is set to the A/A + B (right), use this button to switch between sound from speakers A only, and sound from both speakers A and B.

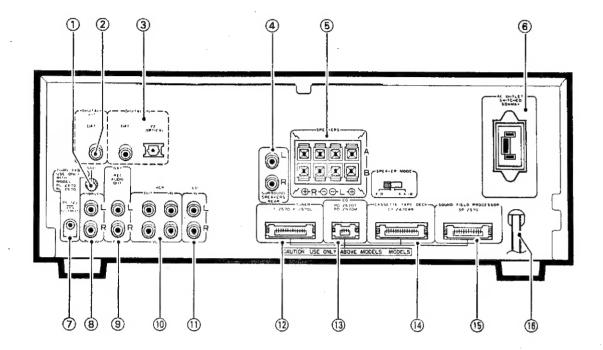
Refer to page 20 No.(6) concerning SPEAKER MODE selector switch.

Rear panel	SPEAKERS		
SPEAKER MODE switch	Indicator off	Indicator lit	
A/B	Α	В	
A/A + B	A	A + B	

#### NOTE

If speakers A and B are not both connected, there will be no sound when the button is set for A + B.

# REAR PANEL FACILITIES



## 1 Ground terminal (GND)

Connect this to the ground terminal on the turntable (except for PL-Z570/PL-Z470).

#### 2 DIGITAL OUT (DAT)

Outputs digital signal taken from CD player optical input.

A digital audio tape deck's digital input jack (coaxial cable input) can be connected here. Consult with your dealer to see if it's possible to connect your digital audio tape deck.

#### 3 DIGITAL IN jacks

#### [DAT]

A digital audio tape deck's digital output jack (coaxial cable output) can be connected here.

Consult with your dealer to see if it's possible to connect your digital audio tape deck.

#### [CD]

Connect a CD player's OPTICAL OUT jack.

## **4 SURROUND SPEAKERS jacks**

Connect the Surround speaker systems.

#### NOTE:

Connect a speaker system having a nominal impedance of 16  $\Omega$  or more.

#### ⑤ SPEAKERS terminals and SPEAKER MODE selector switch

A: Connect to a first set of speakers.

B: Connect to a second set of speakers.

Set the selector switch to the A/B (left), and use the SPEAKERS button on the front panel to switch between sound from speakers A only, and sound from speakers B only.

If you set the selector switch to the A/A + B (right), use the SPEAKERS button on the front panel to switch between sound from speakers A only, and sound from both speakers A and B.

#### NOTE:

Connect a speaker system having a nominal impedance ranging from 8  $\Omega$  to 16  $\Omega$ 

# **6 AC OUTLET (SWITCHED 50 W MAX)**

Power supplied through this outlet is turned on and off by the amplifier's POWER switch. Total electrical power consumption of connected equipment should not exceed 50 W.

PD-Z570T or PD-Z970M CD player power cord can be connected.

#### NOTE:

Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLET in order to avoid overheating or fire risk.

This can cause the amplifier to malfunction.

## TURNTABLE (DC 12V OUTPUT) jack

This jack supplies power to the turntable PL-Z470/PL-Z570.

## 8 PHONO input jacks

Connect the output cord of the turntable to these jacks.

#### 9 DAT REC OUT jacks

Connect to audio input jacks of the digital audio tape deck.

## (10) VCR jacks

IN: Connect to the audio output jacks of VCR. OUT: Connect to audio input jacks of VCR.

## 11 LD input jacks

Connect to the audio output jacks of the LD player.

#### 12 TUNER jack

Connect the tuner cord here.

#### (13) CD jack

Connect the compact disc player (PD-Z570T/ PD-Z970M) cord here.

#### (4) CASSETTE TAPE DECK lack

Connect the cassette deck cord here.

## (15) SOUND FIELD PROCESSOR jack

Connect the sound field processor cord here.

#### (16) Power cord

Connect this to the AC wall socket.